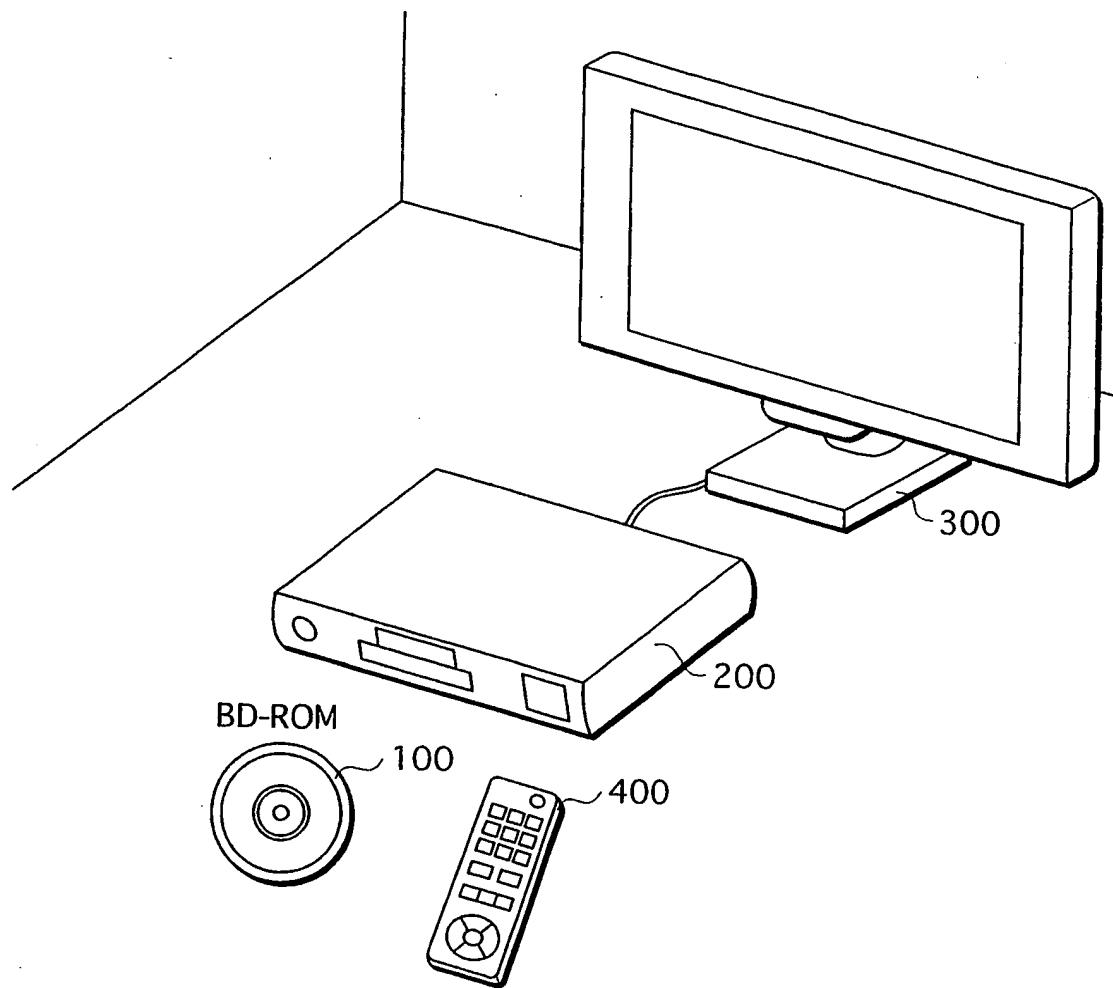
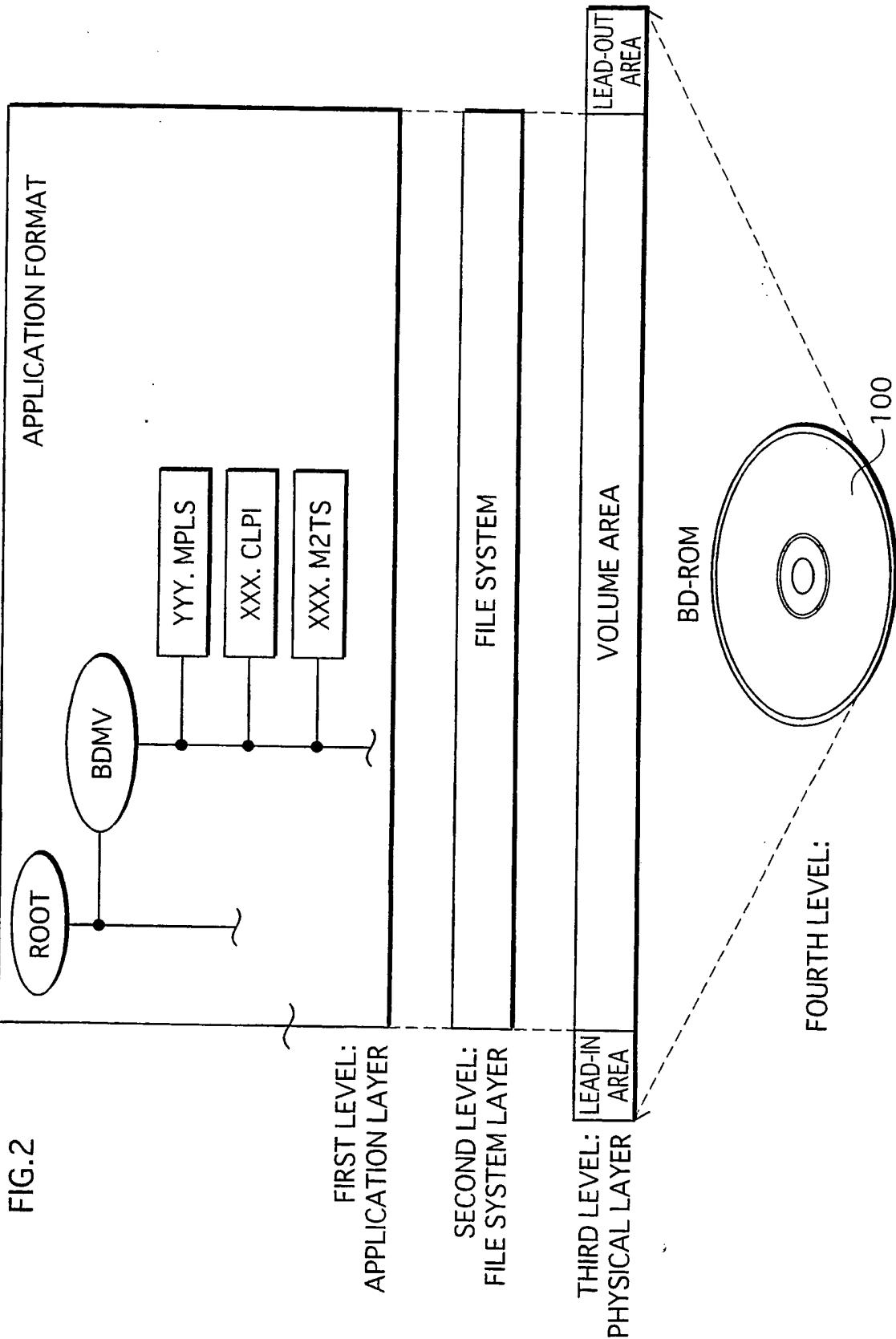


FIG.1





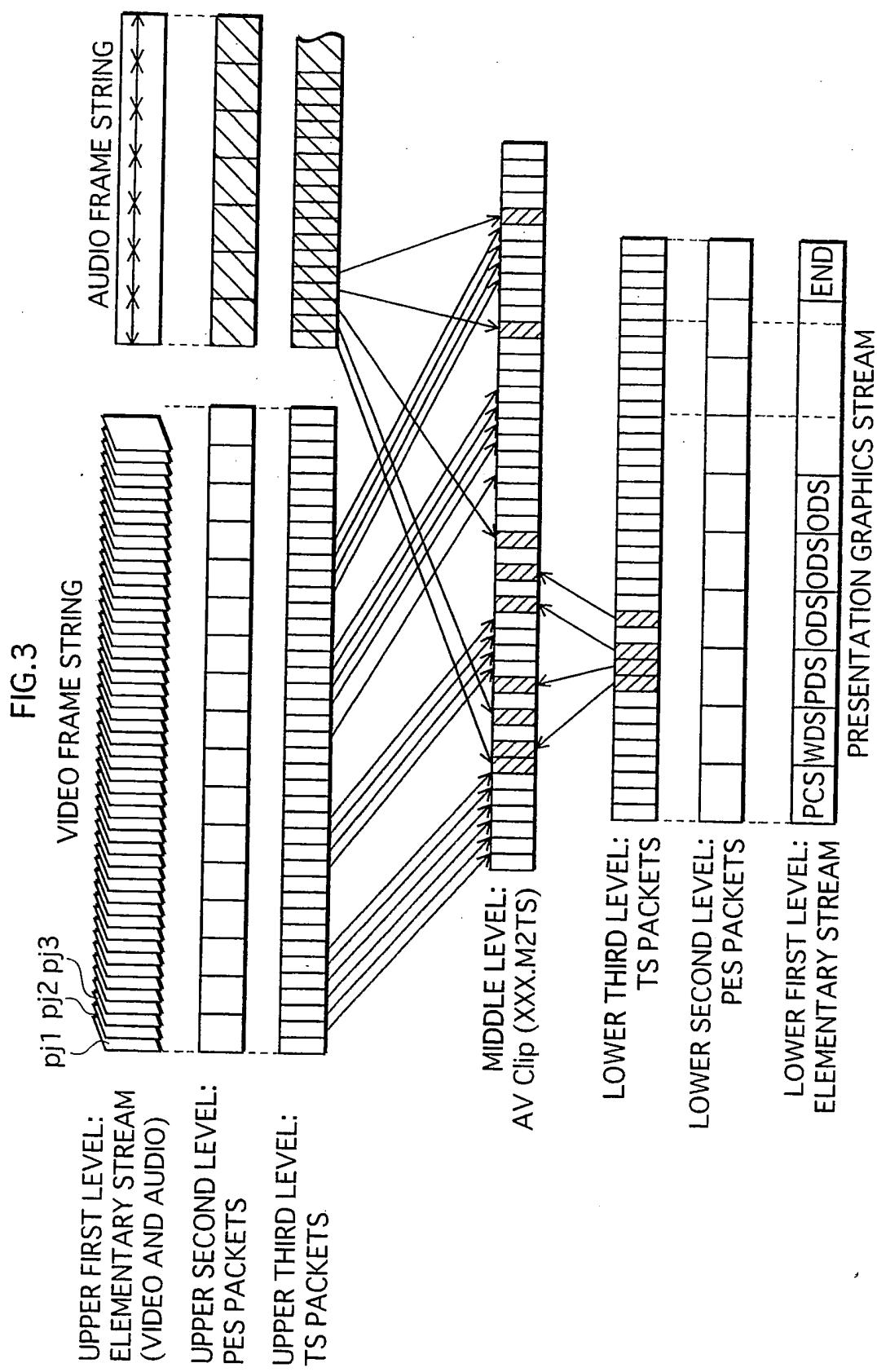
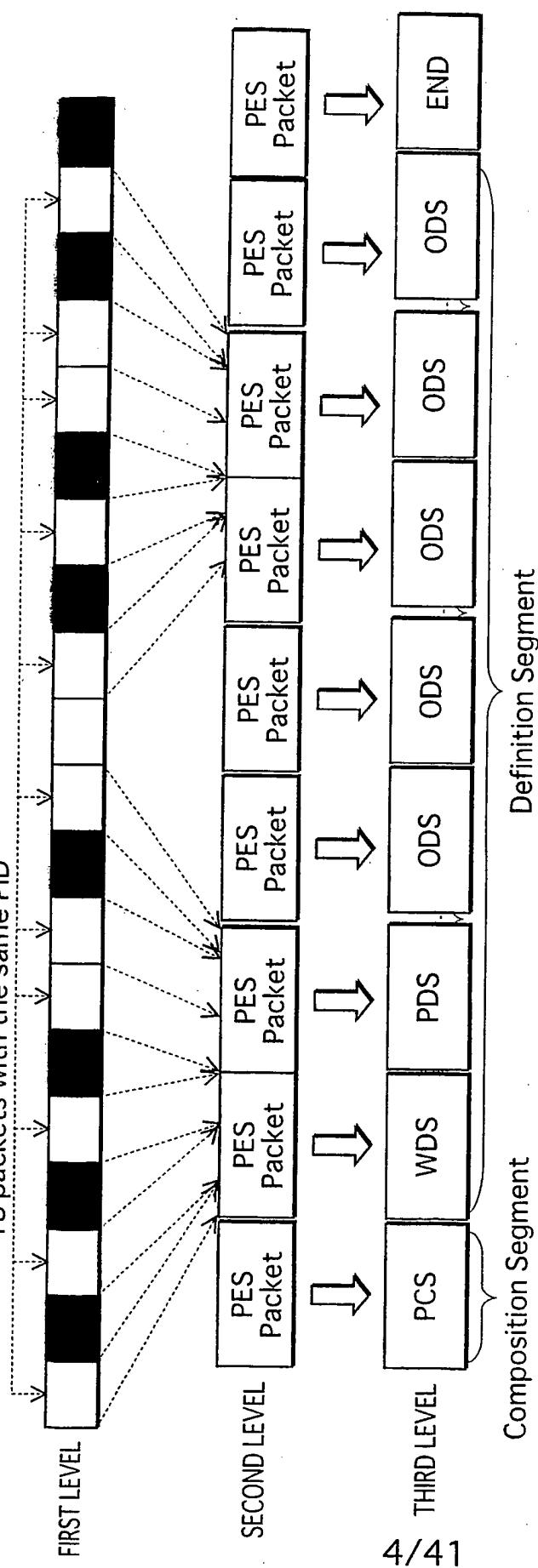


FIG. 4A



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FIG. 4B

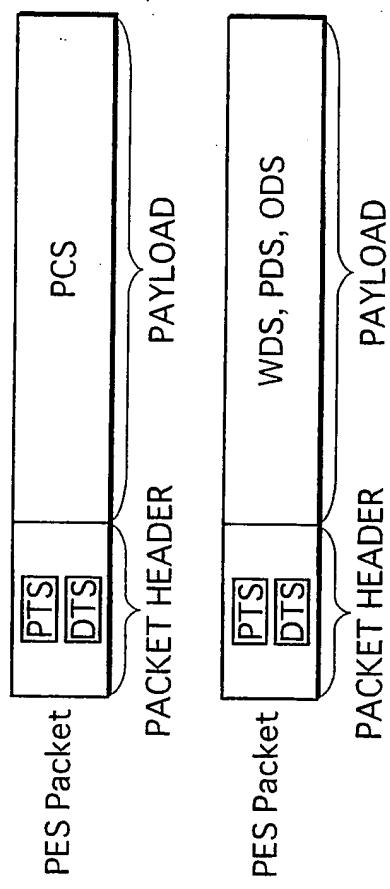


FIG. 5

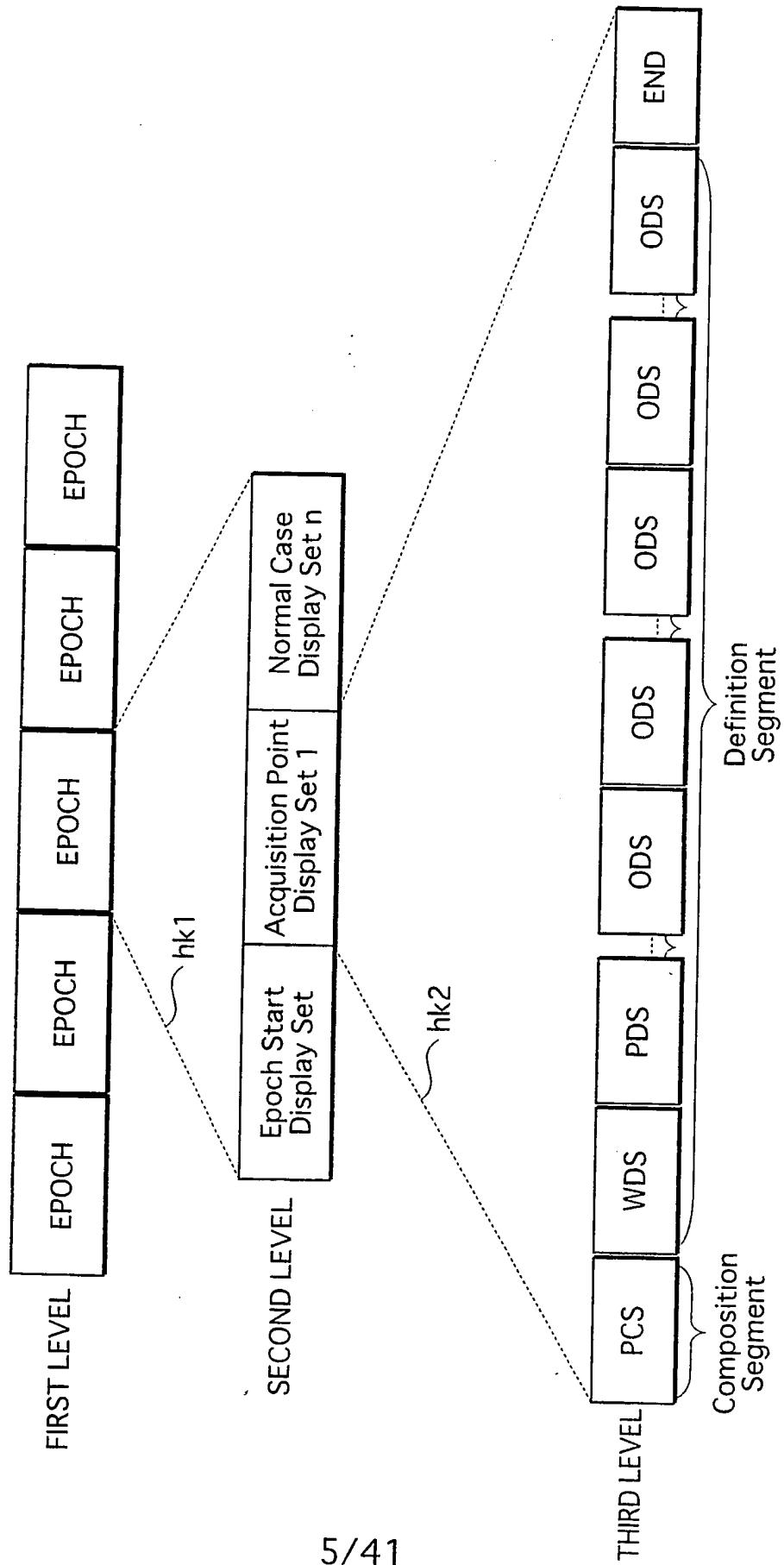


FIG.6

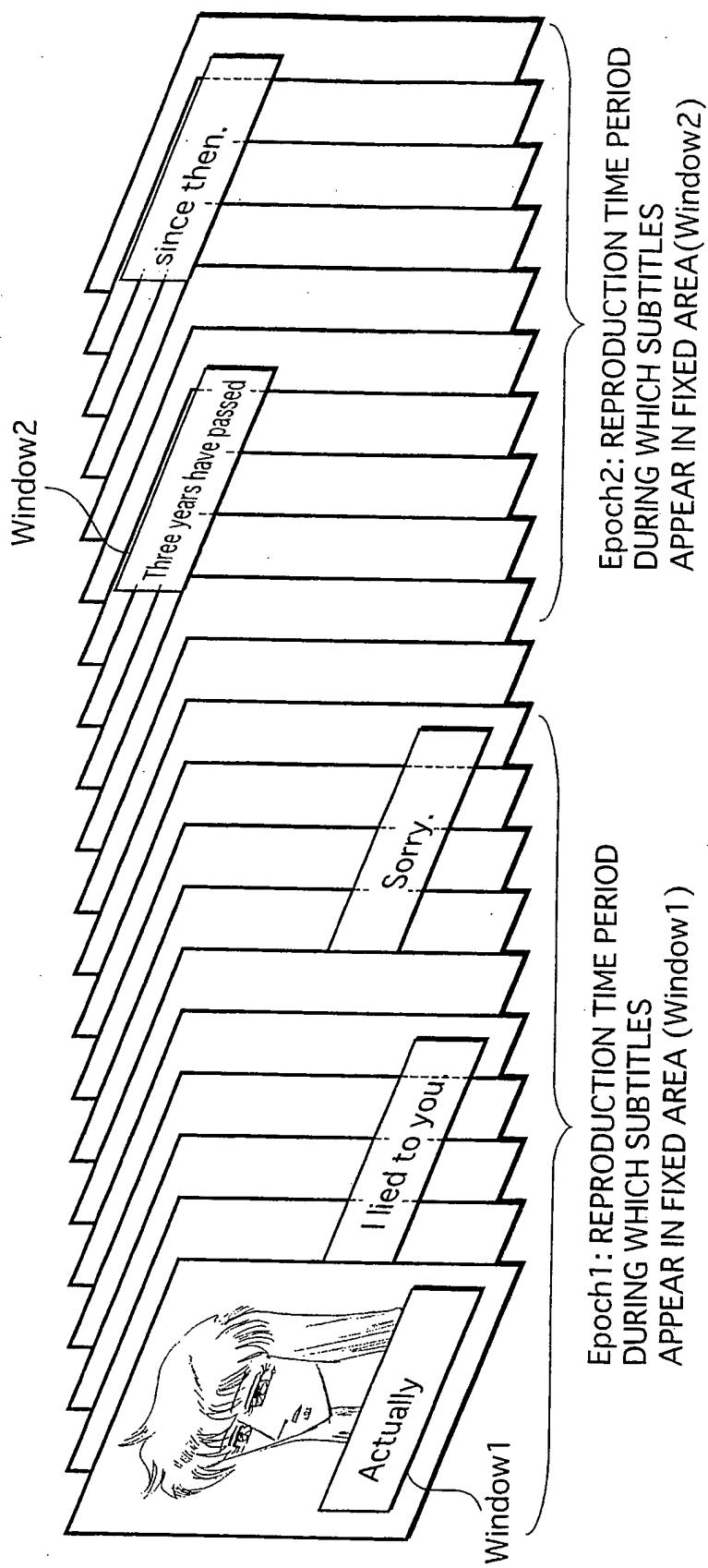


FIG.7A

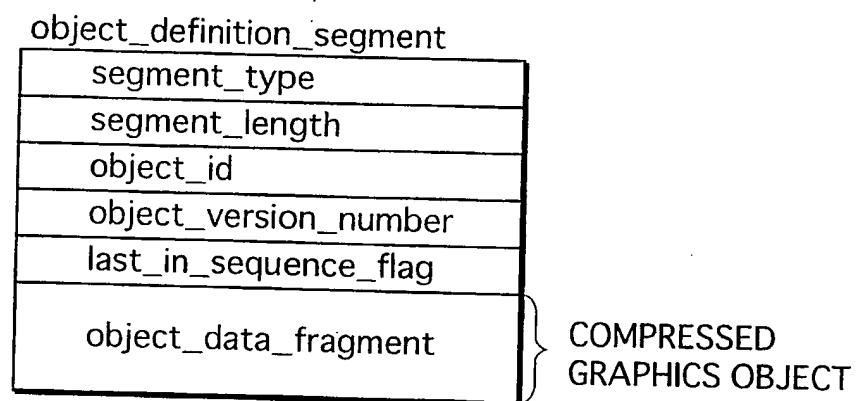
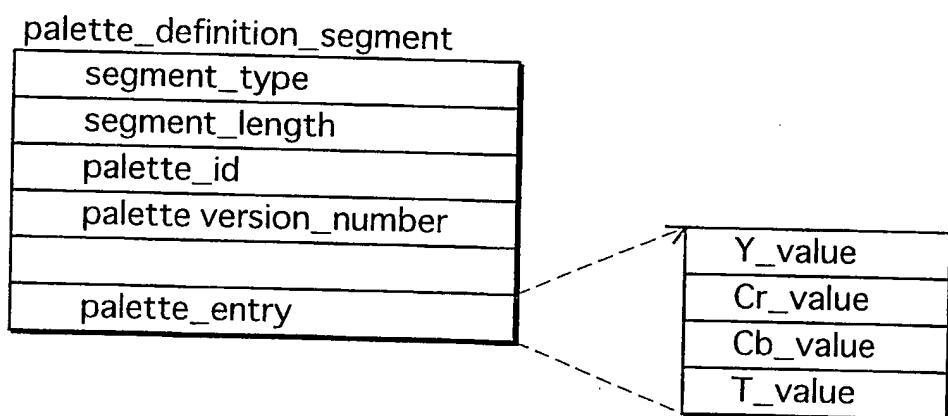


FIG.7B



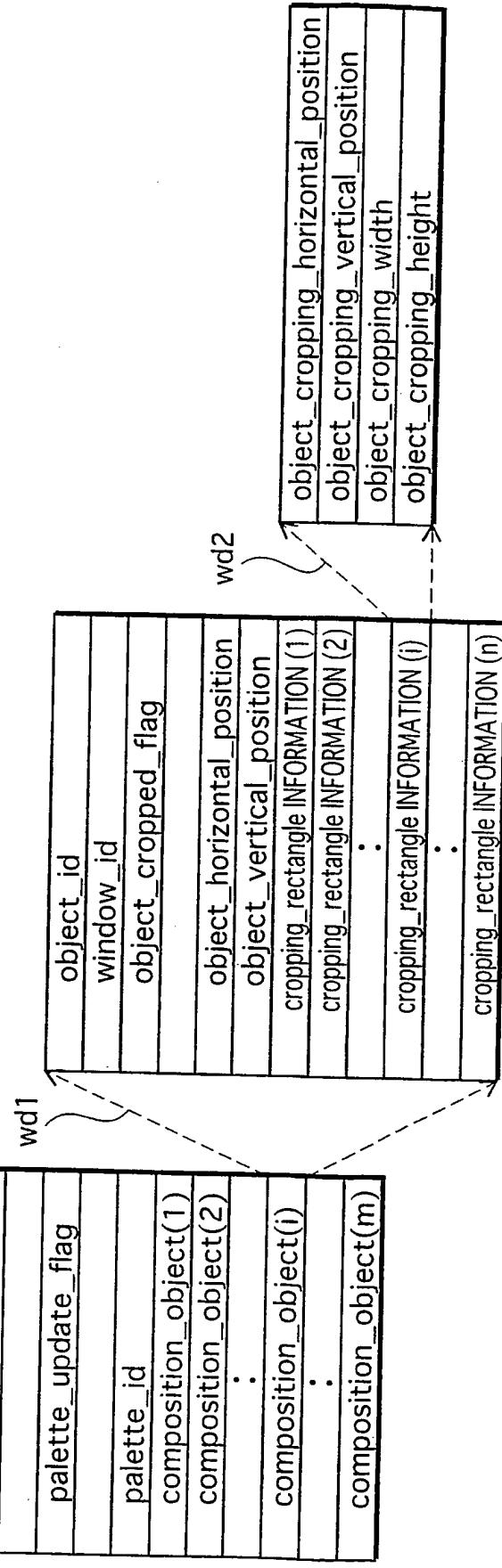
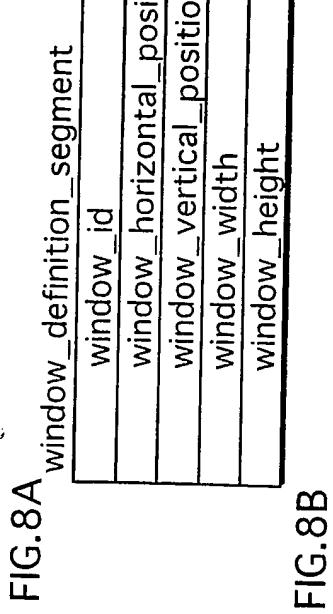


FIG.9

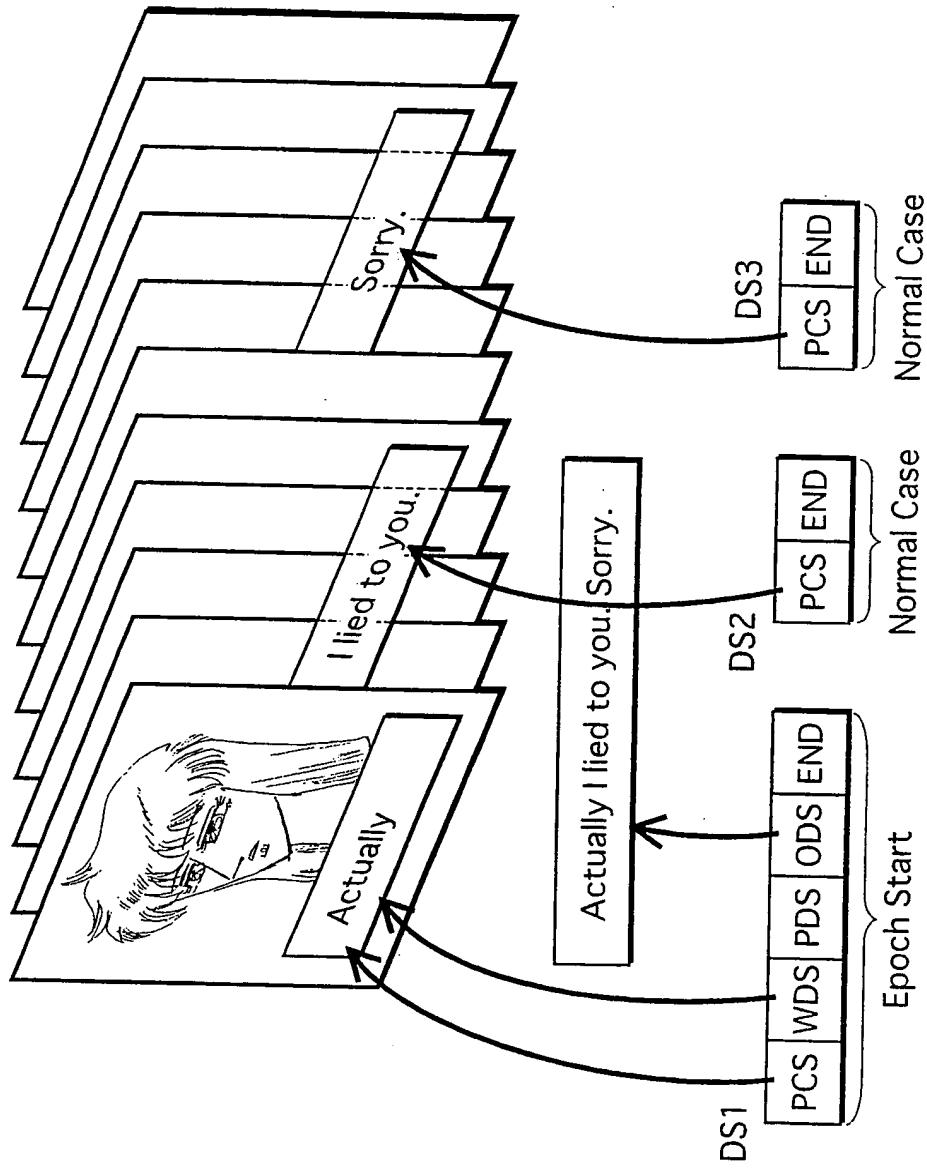


FIG.10

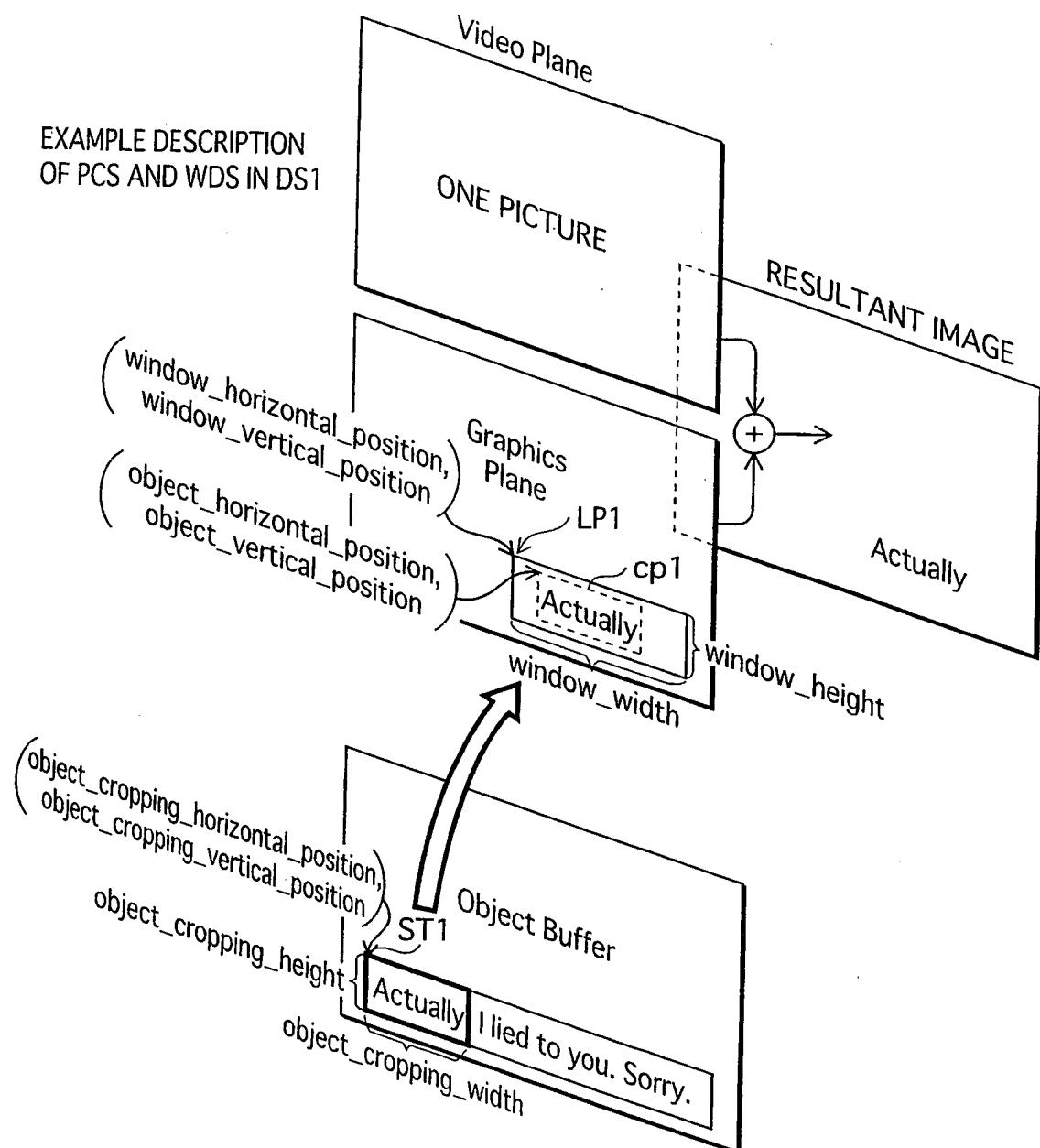


FIG.11

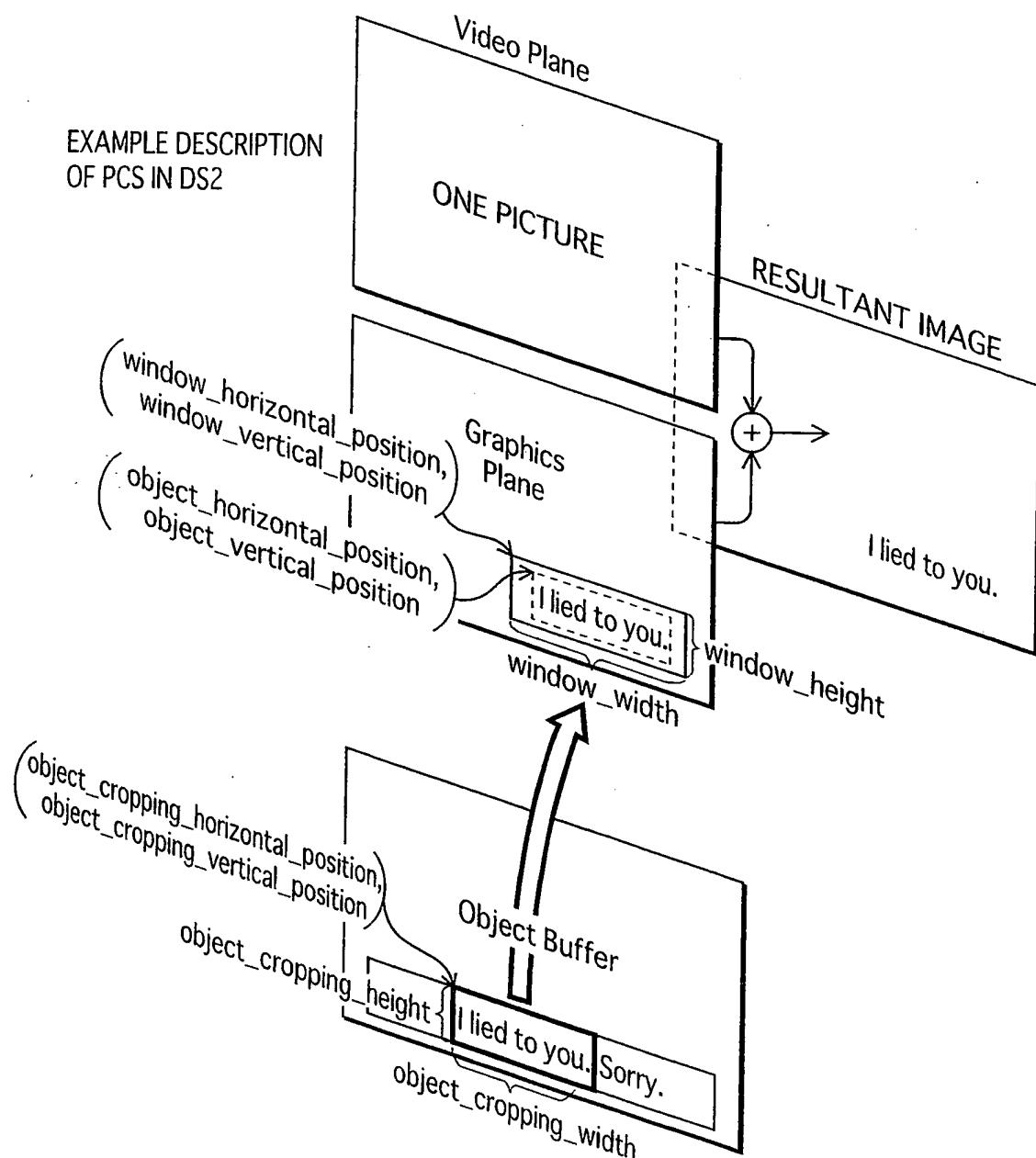


FIG.12

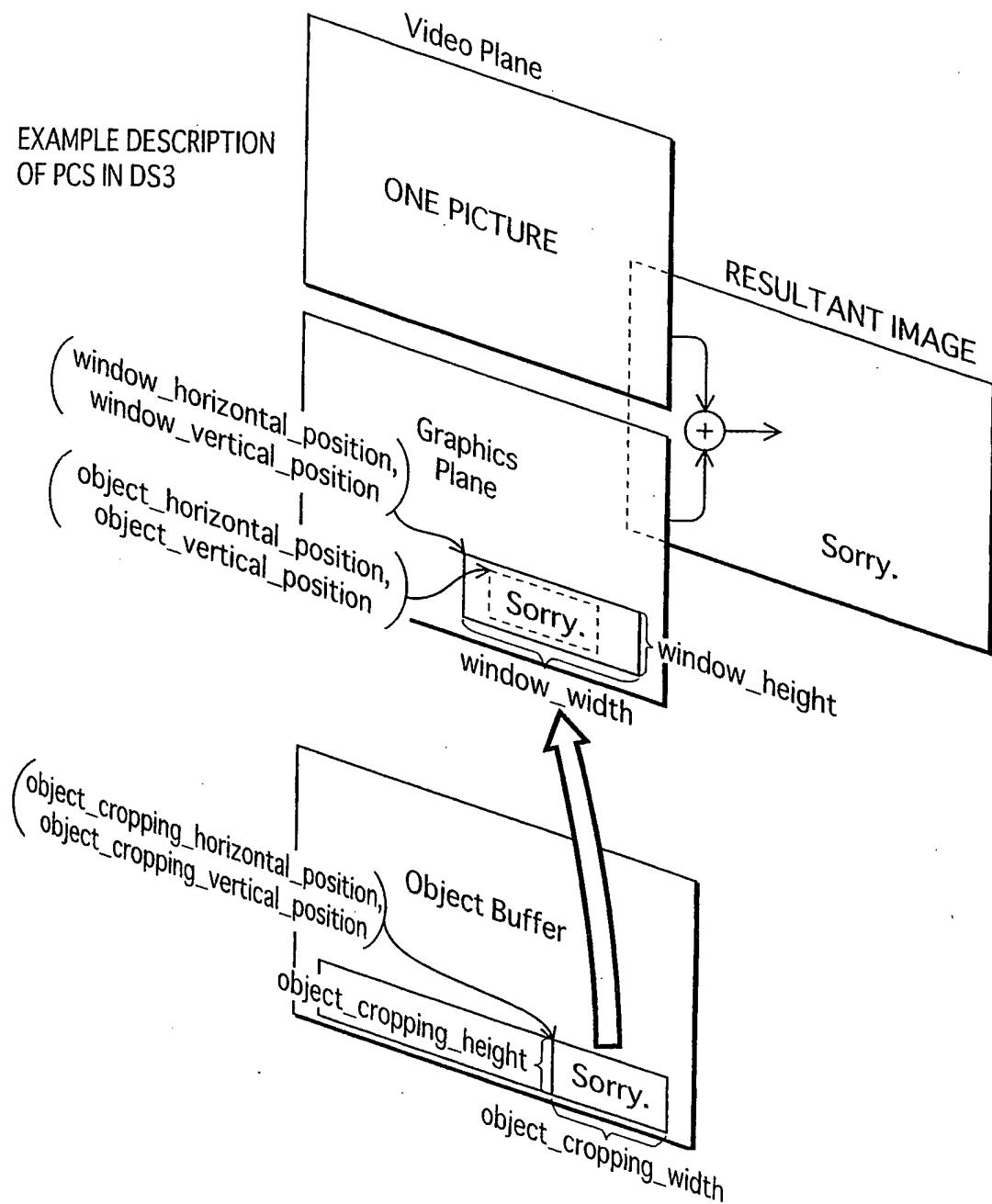


FIG.13

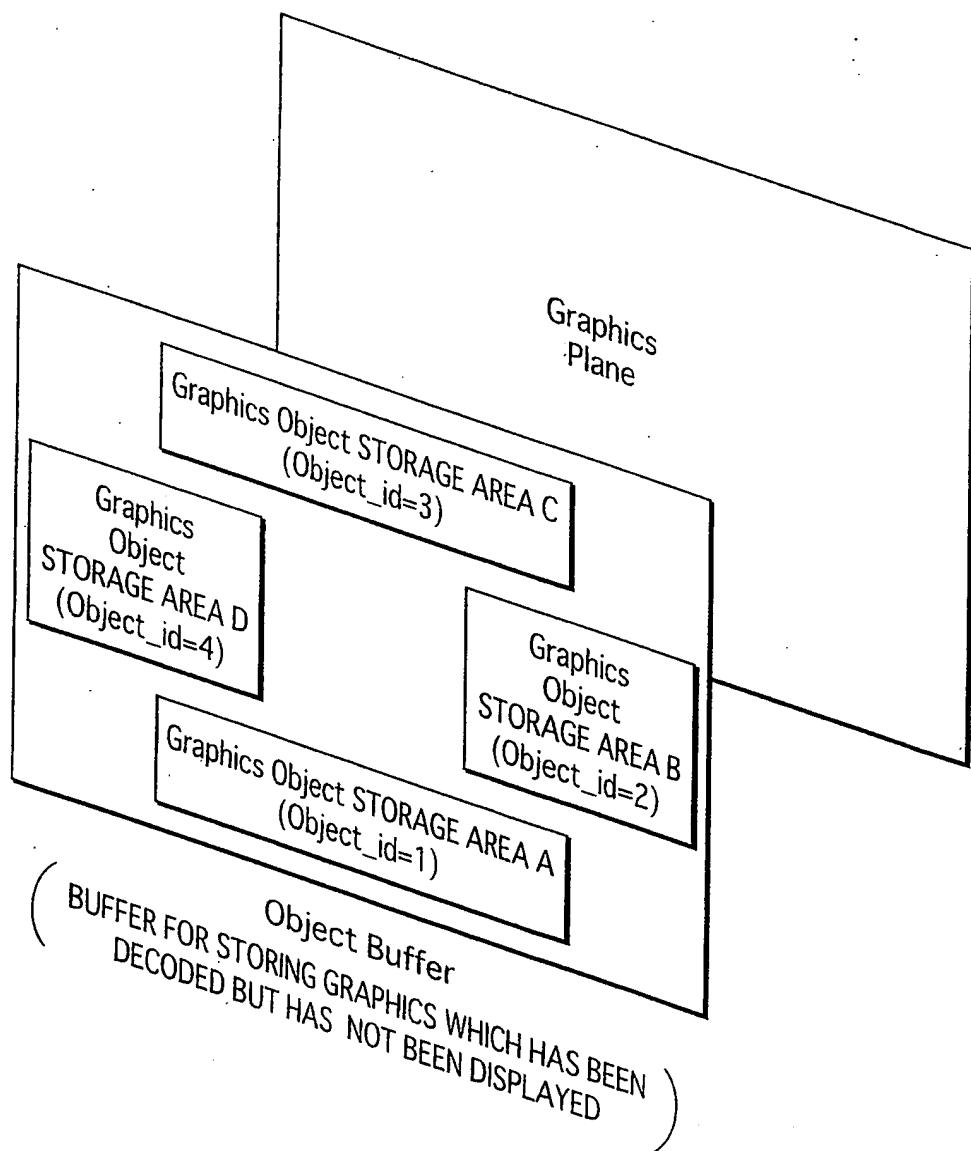


FIG.14 $\text{PTS}(\text{DSn[PCS]}) \geq \text{DTS}(\text{DSn[PCS])} + \text{DECODEDURATION}(\text{DSn})$

Where:

- $\text{DECODEDURATION}(\text{DSn})$ is calculated as follows:

```

decode_duration = 0 ;
decode_duration += PLANEINITIALIZATIONTIME( DSn ) ;
if( DSn. PCS. num_of_objects == 2 )
{
    decode_duration += WAIT( DSn, DSn. PCS. OBJ[0], decode_duration ) ;
    if( DSn. PCS. OBJ[0]. window_id == DSn. PCS. OBJ[1]. window_id )
    {
        decode_duration += WAIT( DSn, DSn. PCS. OBJ[1], decode_duration ) ;
        decode_duration += 90000*( SIZE(DSn. PCS. OBJ[0]. window_id )//256*106) ;
    }
    else
    {
        decode_duration += 90000*( SIZE(DSn. PCS. OBJ[0]. window_id )//256*106) ;
        decode_duration += WAIT( DSn, DSn. PCS. OBJ[1], decode_duration ) ;
        decode_duration += 90000*( SIZE(DSn. PCS. OBJ[1]. window_id )//256*106) ;
    }
}
else if( DSn. PCS. num_of_objects == 1 )
{
    decode_duration += WAIT( DSn, DSn. PCS. OBJ[0], decode_duration ) ;
    decode_duration += 90000*( SIZE(DSn. PCS. OBJ[0]. window_id )//256*106) ;
}
return decode_duration ;

```

- $\text{PLANEINITIALIZATIONTIME}(\text{DSn})$ is calculated as follows:

```

initialize_duration=0 ;
if( DSn. PCS. composition_state== EPOCH_START )
{
    initialize_duration = 90000*( 8*video_width*video_height//256*106) ;
}
else
{
    for( i=0 ; i < WDS. num_windows ; i++ )
    {
        if( EMPTY(DSn.WDS.WIN[i],DSn) )
            initialize_duration += 90000*( SIZE( DSn. WDS. WIN[i] )//256*106) ;
    }
}
return initialize_duration ;

```

- $\text{WAIT}(\text{DSn}, \text{OBJ}, \text{current_duration})$ is calculated as follows:

```

wait_duration = 0 ;
if( EXISTS( OBJ. object_id, DSn ) )
{
    object_definition_ready_time = PTS( GET( OBJ. object_id, DSn ) ) ;
    current_time = DTS( DSn. PCS )+current_duration ;
    if( current_time < object_definition_ready_time )
        wait_duration += object_definition_ready_time - current_time ) ;
}
return wait_duration ;

```

CALCULATION OF DECODEDURATION

FIG. 1.5

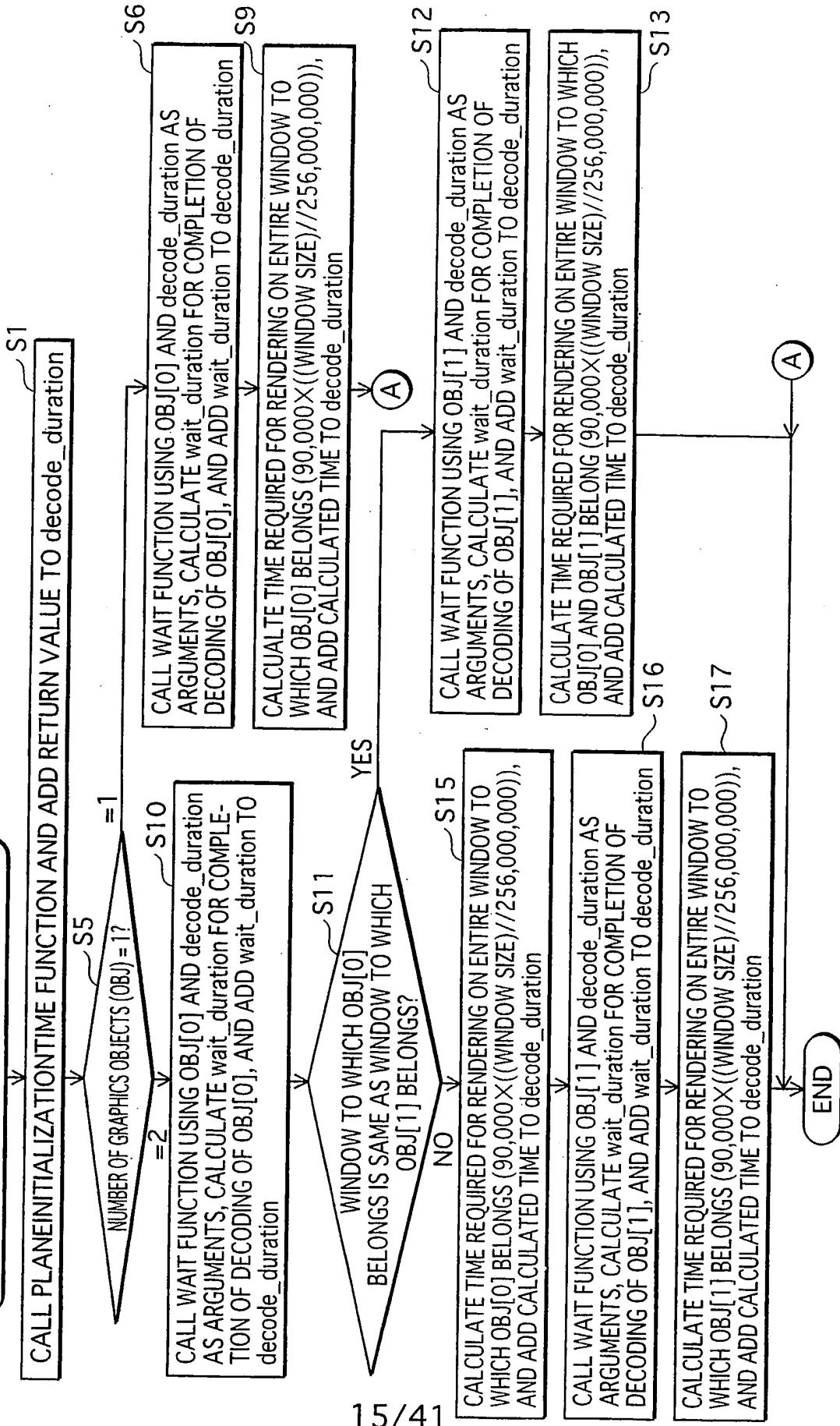


FIG.16A

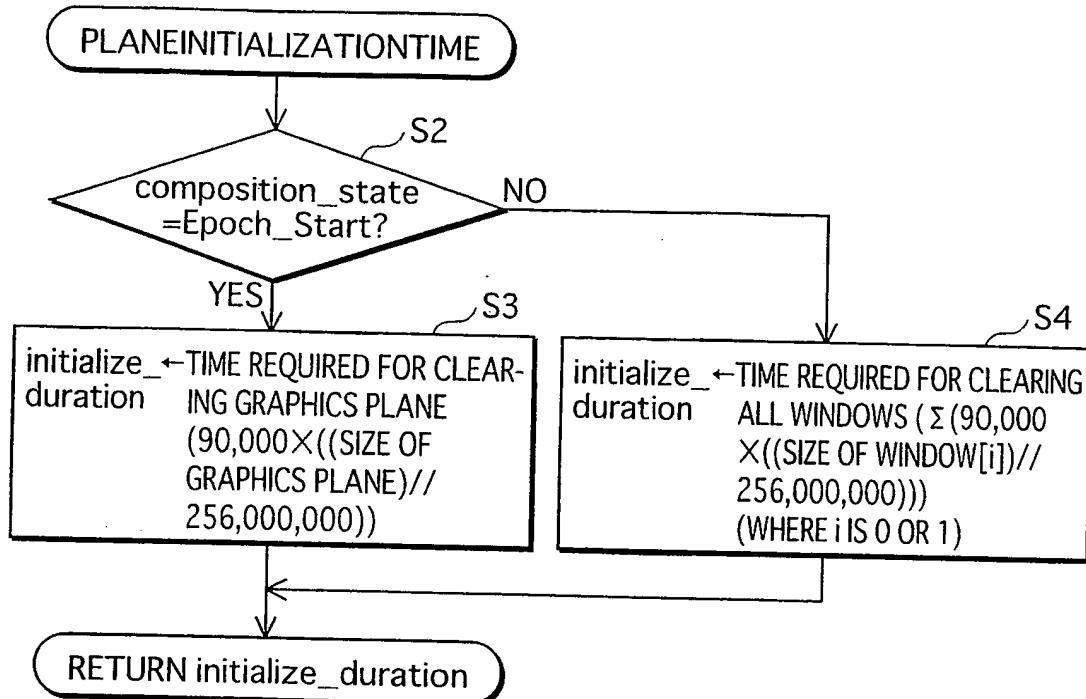


FIG.16B

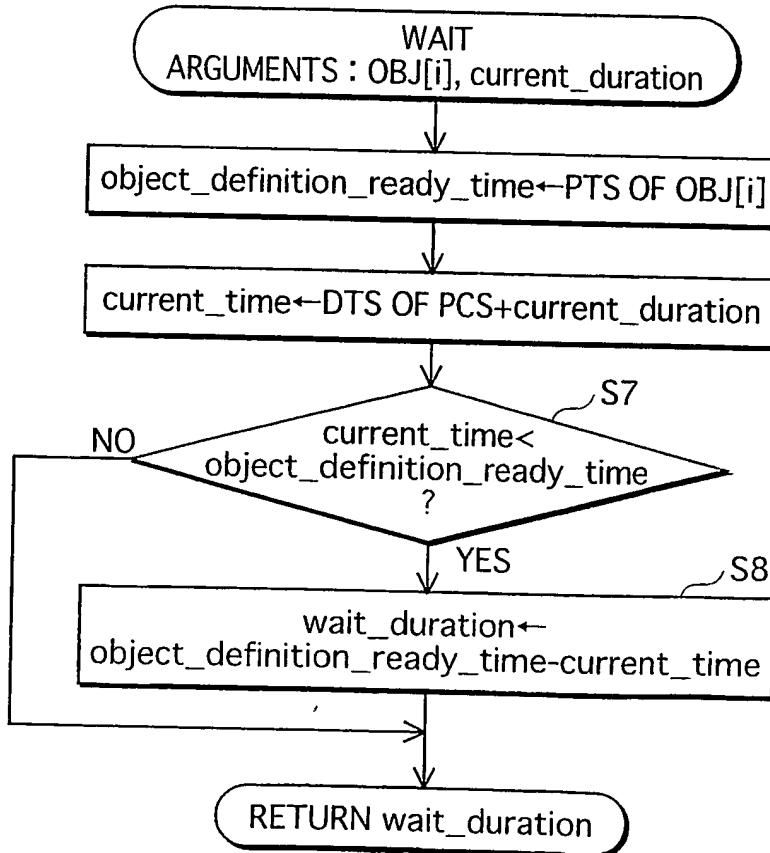


FIG.17A

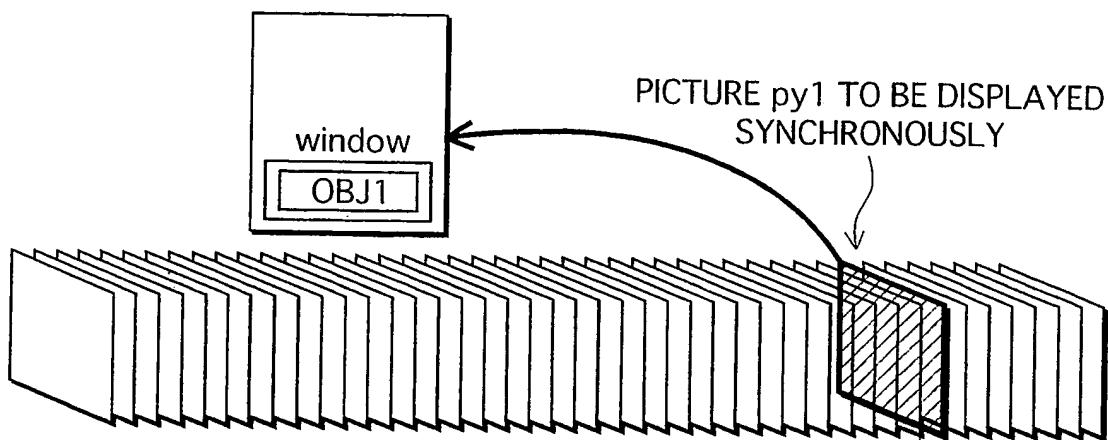


FIG.17B

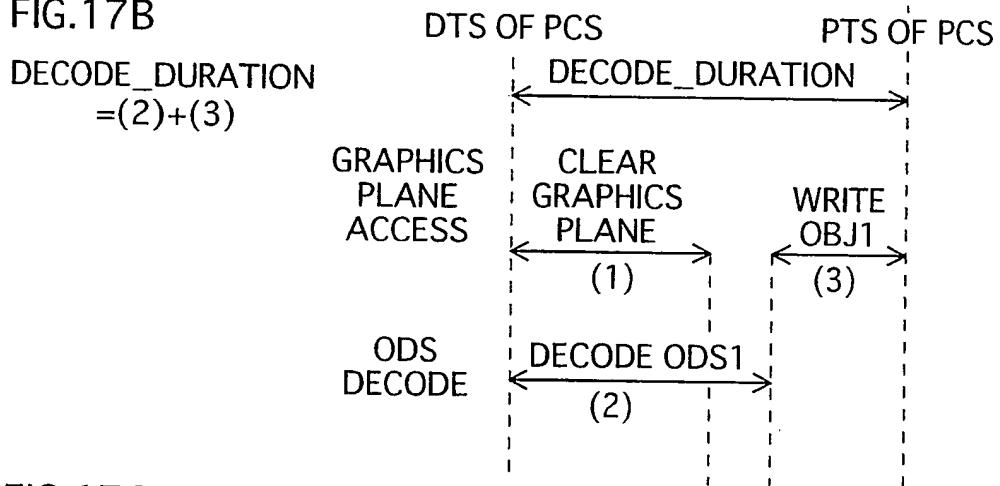


FIG.17C

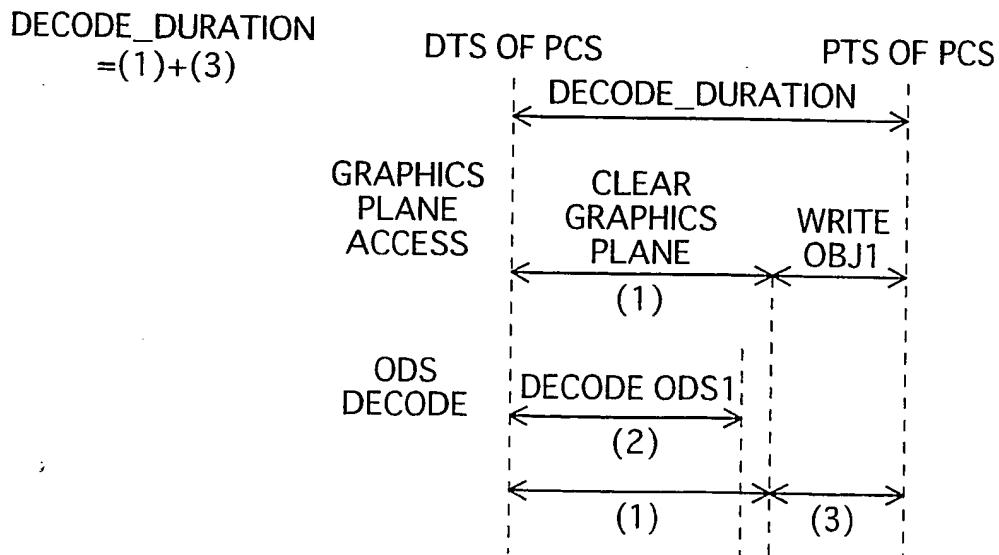


FIG.18A

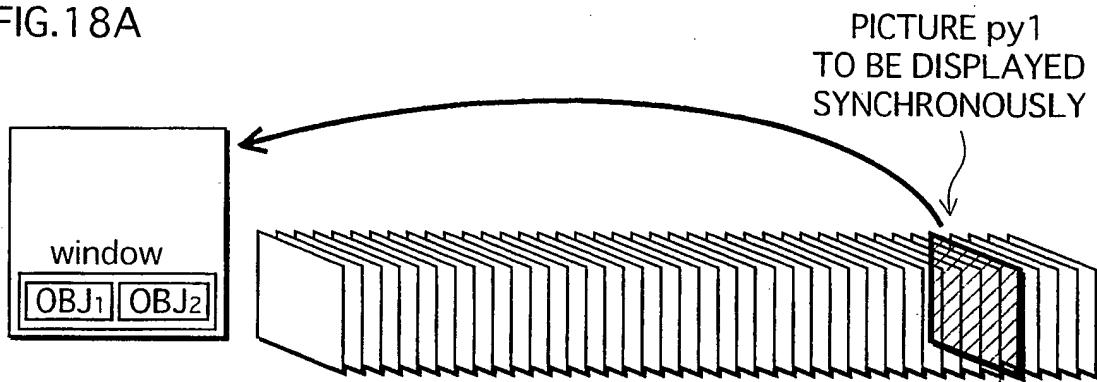


FIG.18B

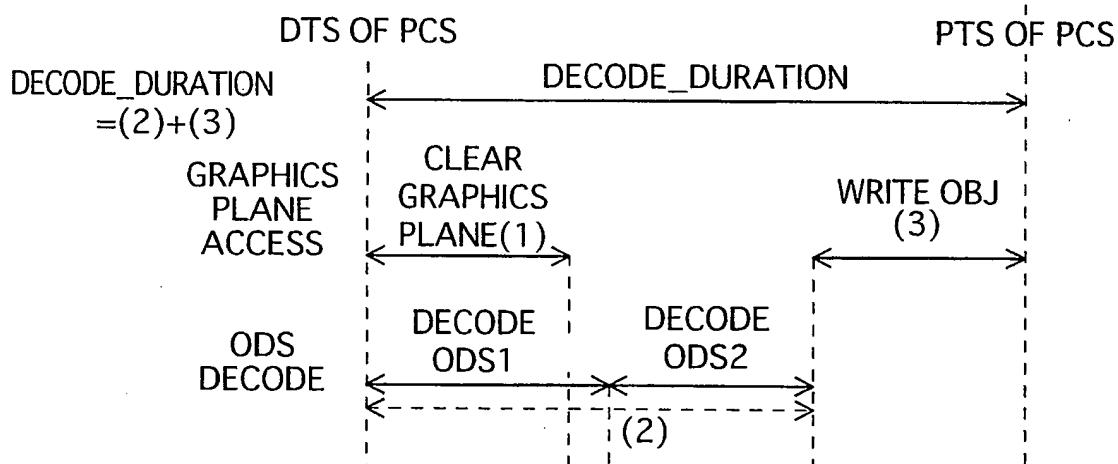
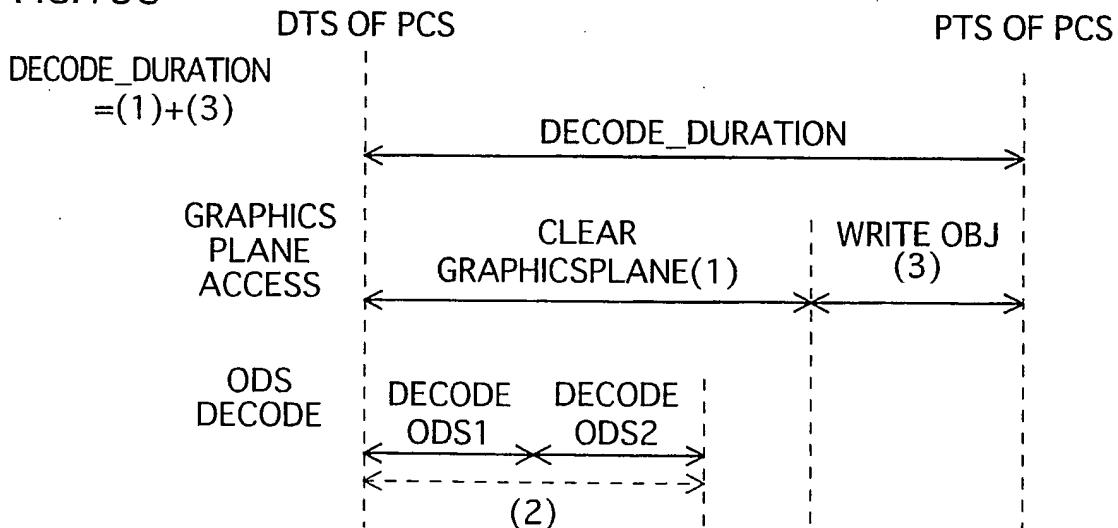


FIG.18C



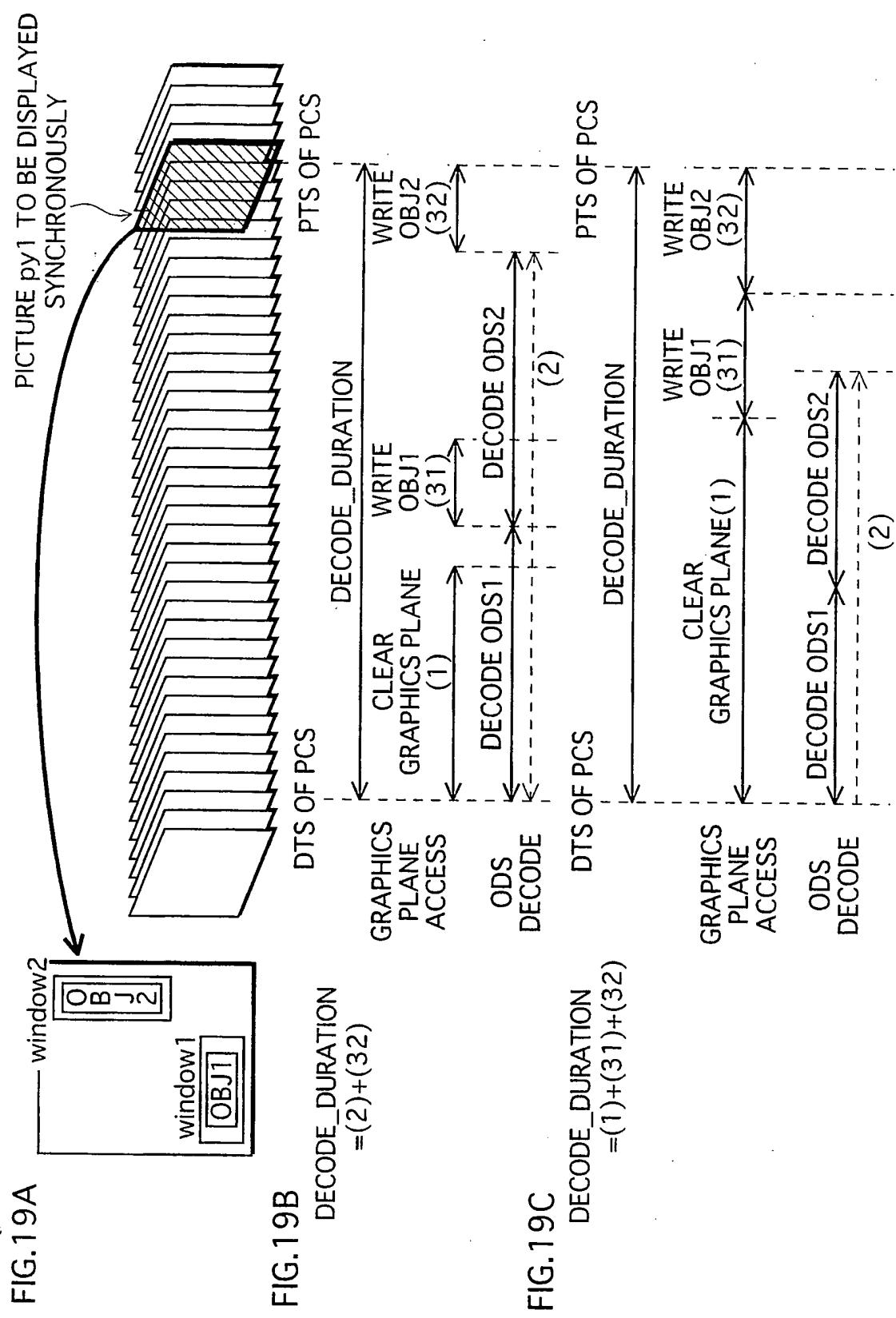


FIG.20

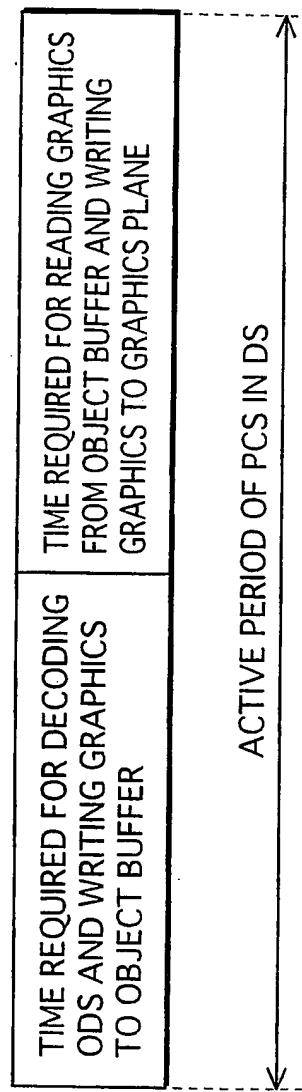
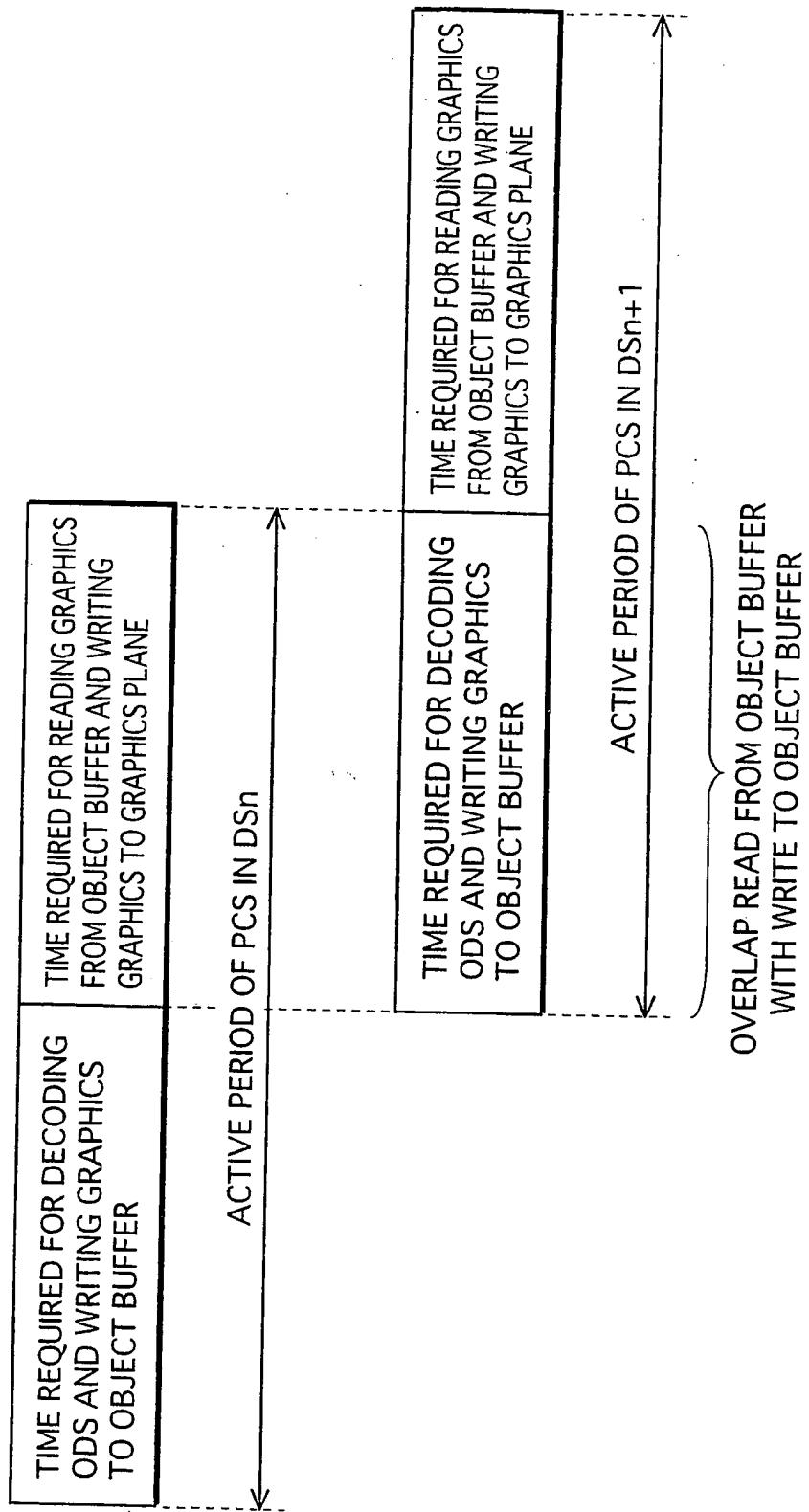


FIG.21



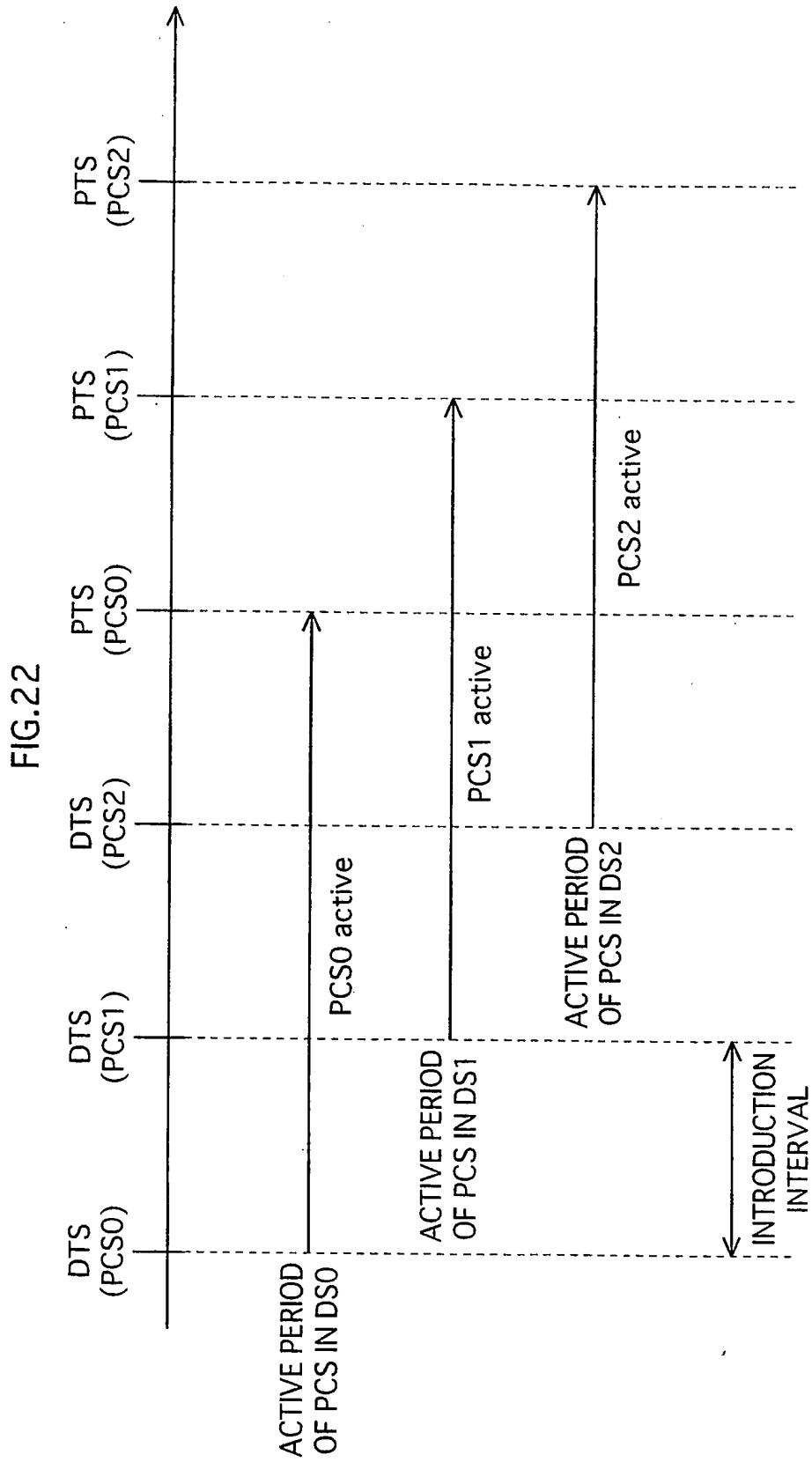


FIG.23

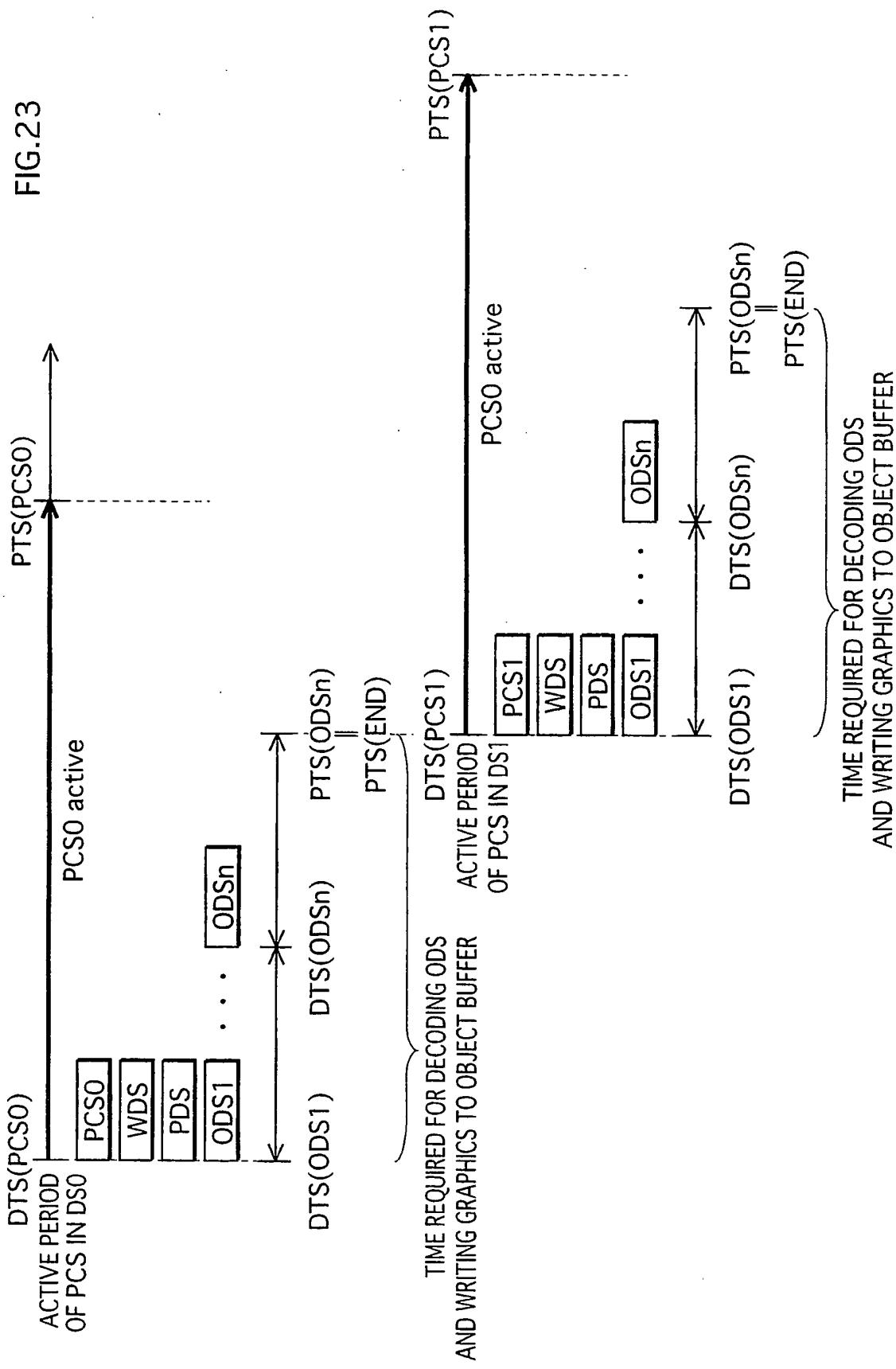


FIG.24

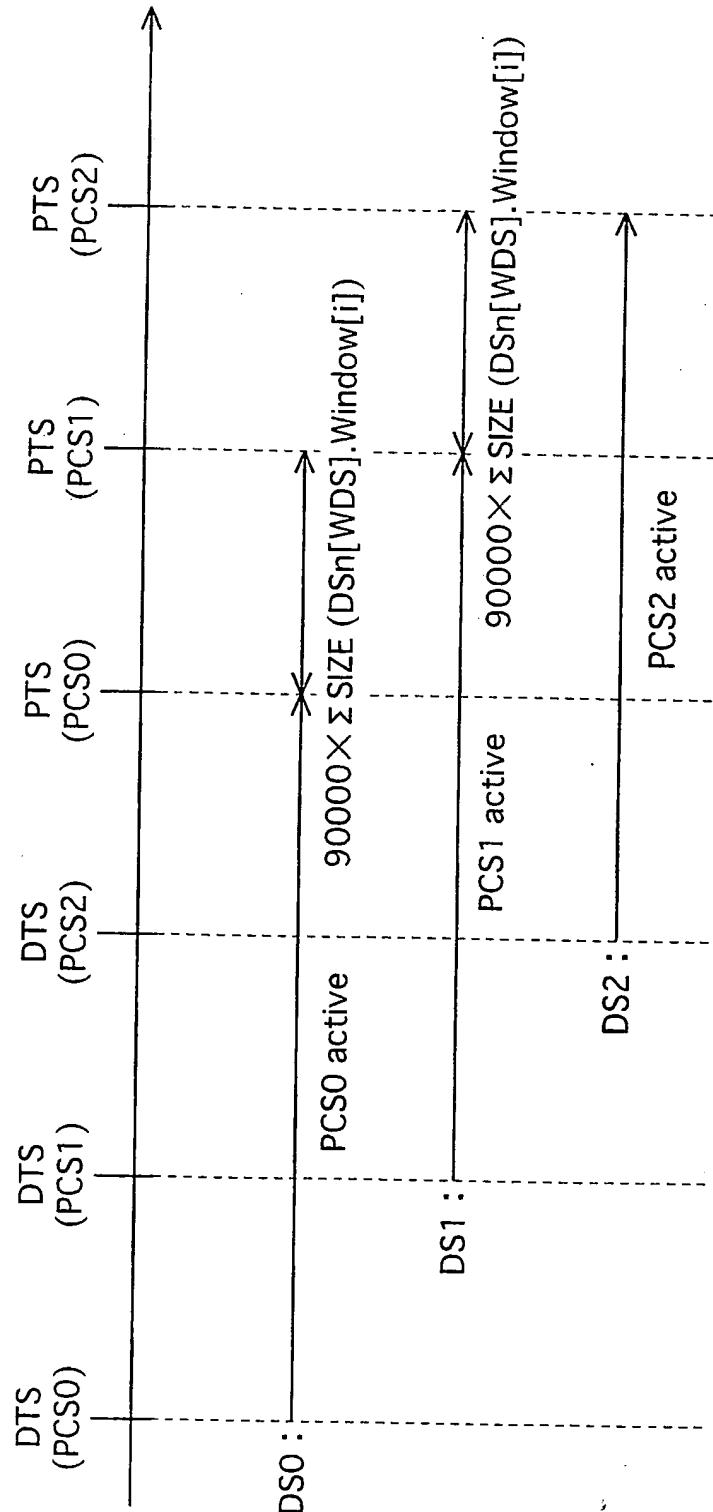
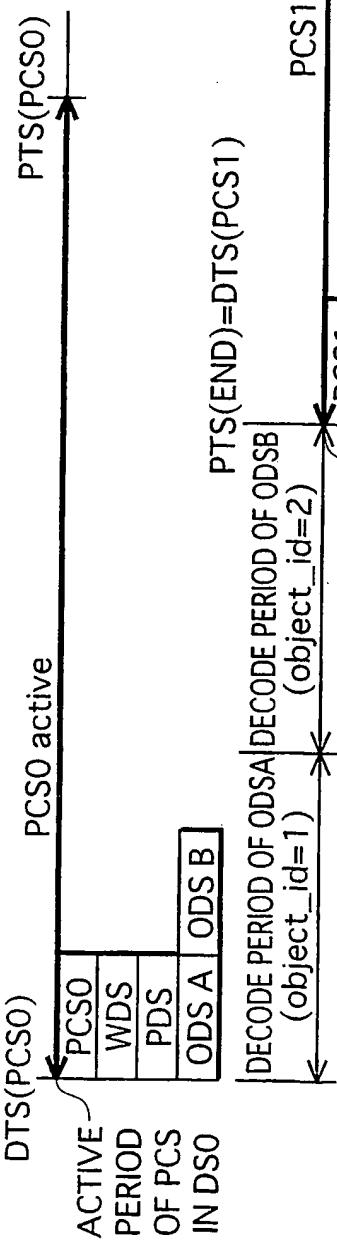


FIG.25A PIPELINE



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FIG.25B NON-PIPELINE

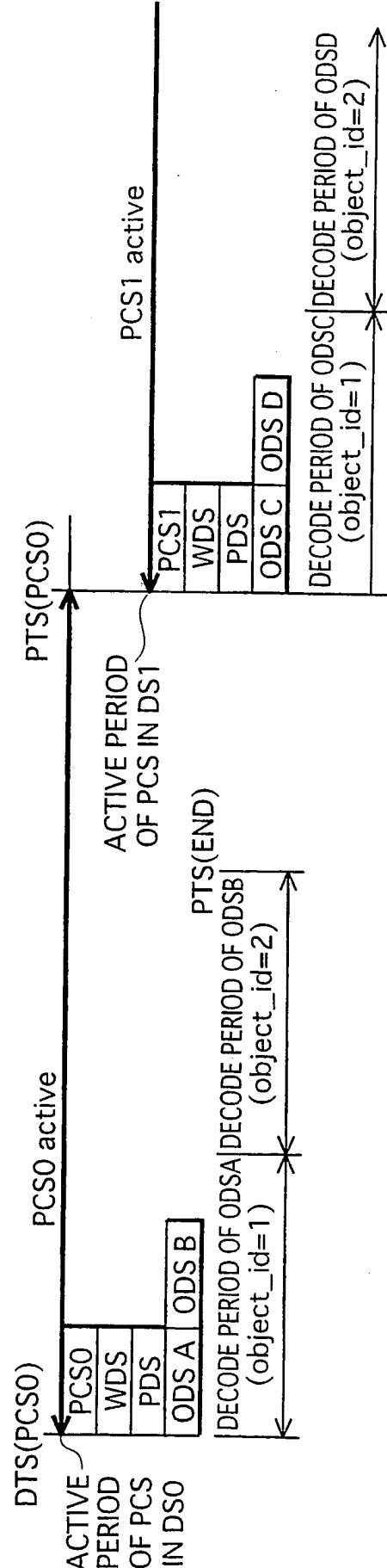


FIG. 26

END SEGMENT SHOWS
END OF TRANSFER OF
ODSS INDS

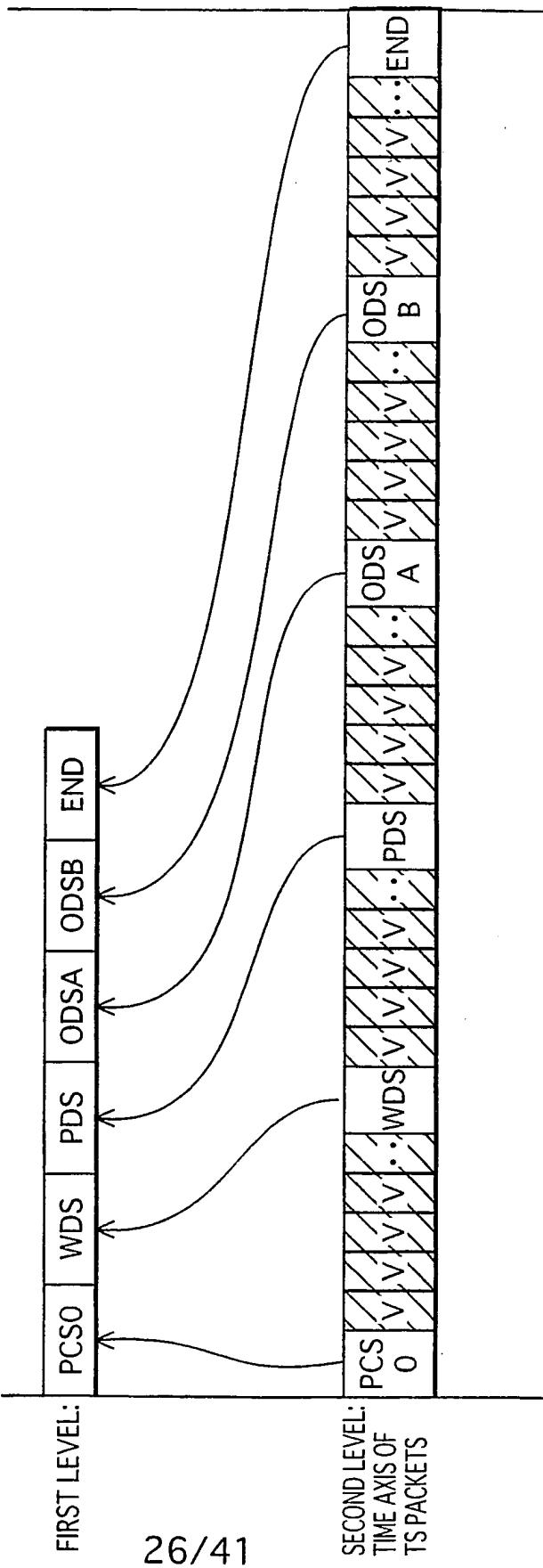


FIG.27A SCREEN COMPOSITION

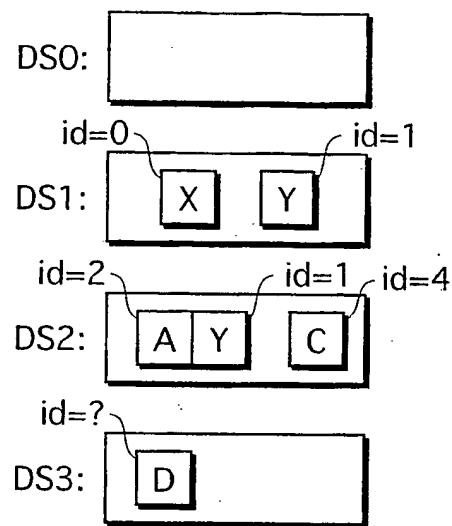


FIG.27B ACTIVE PERIOD OVERLAPPING AND ODS TRANSFER

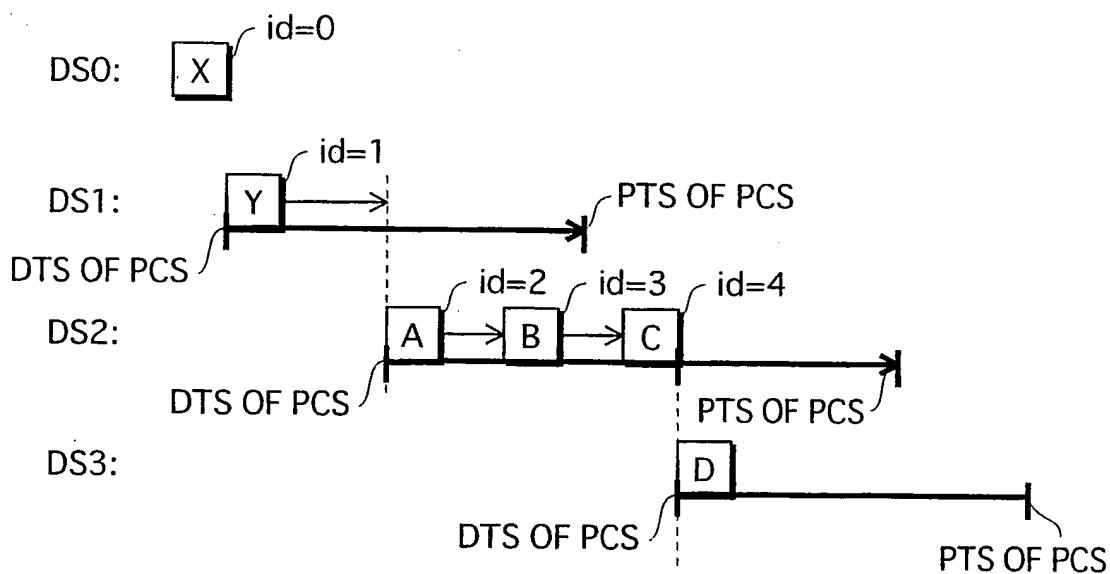


FIG.27C ARRANGEMENT IN OBJECT BUFFER

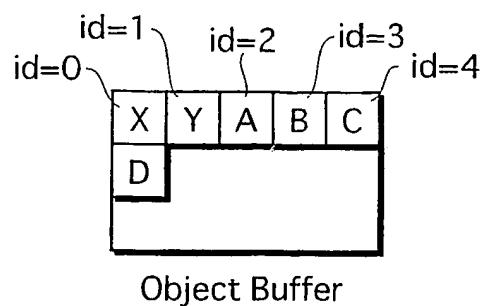


FIG.28

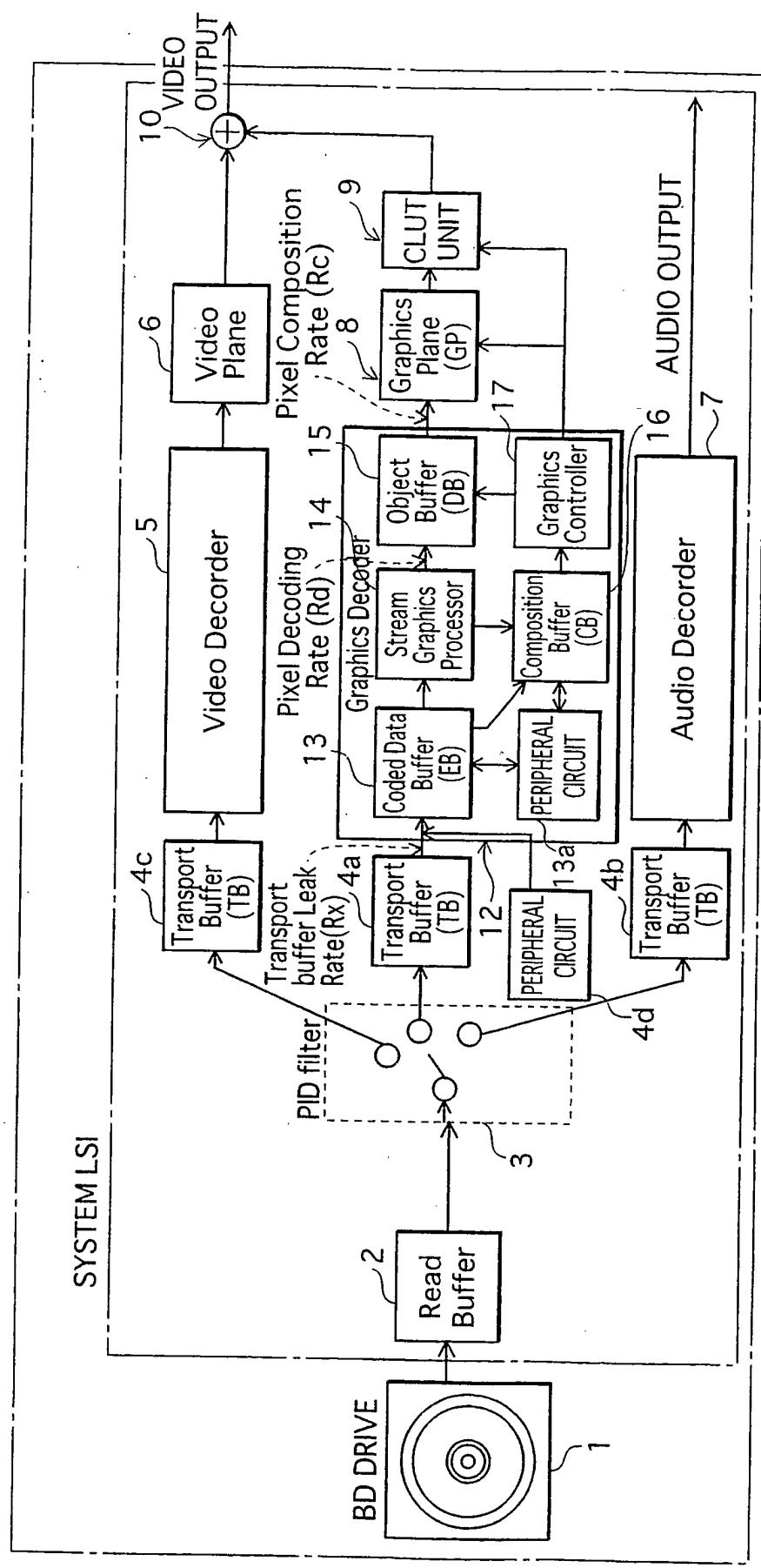
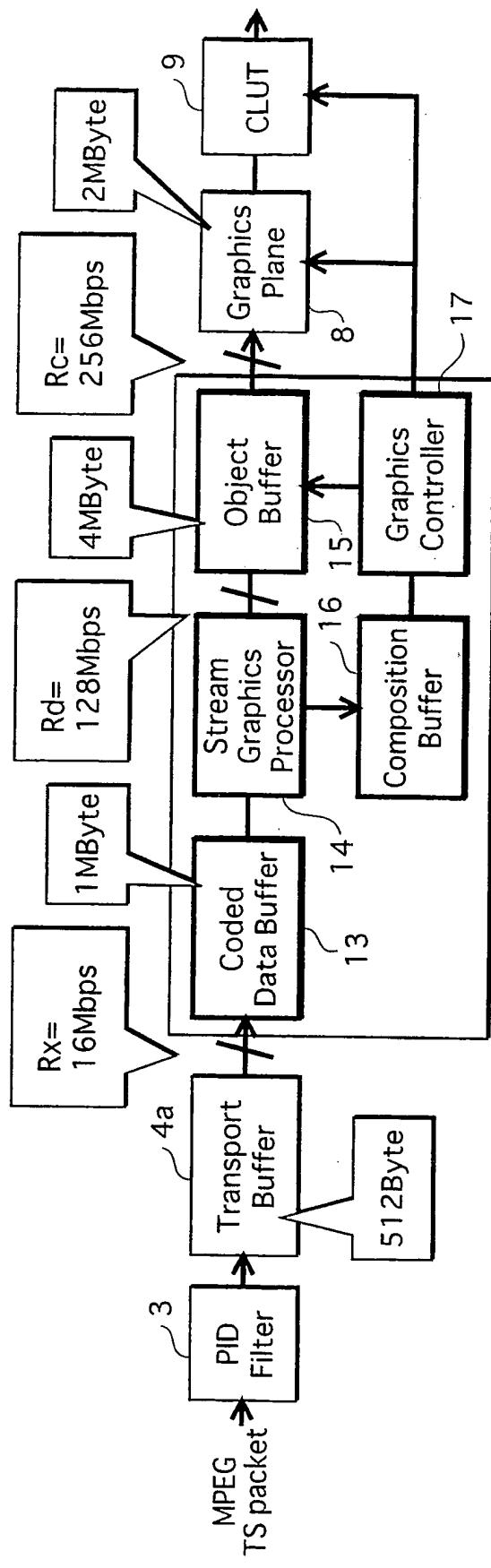
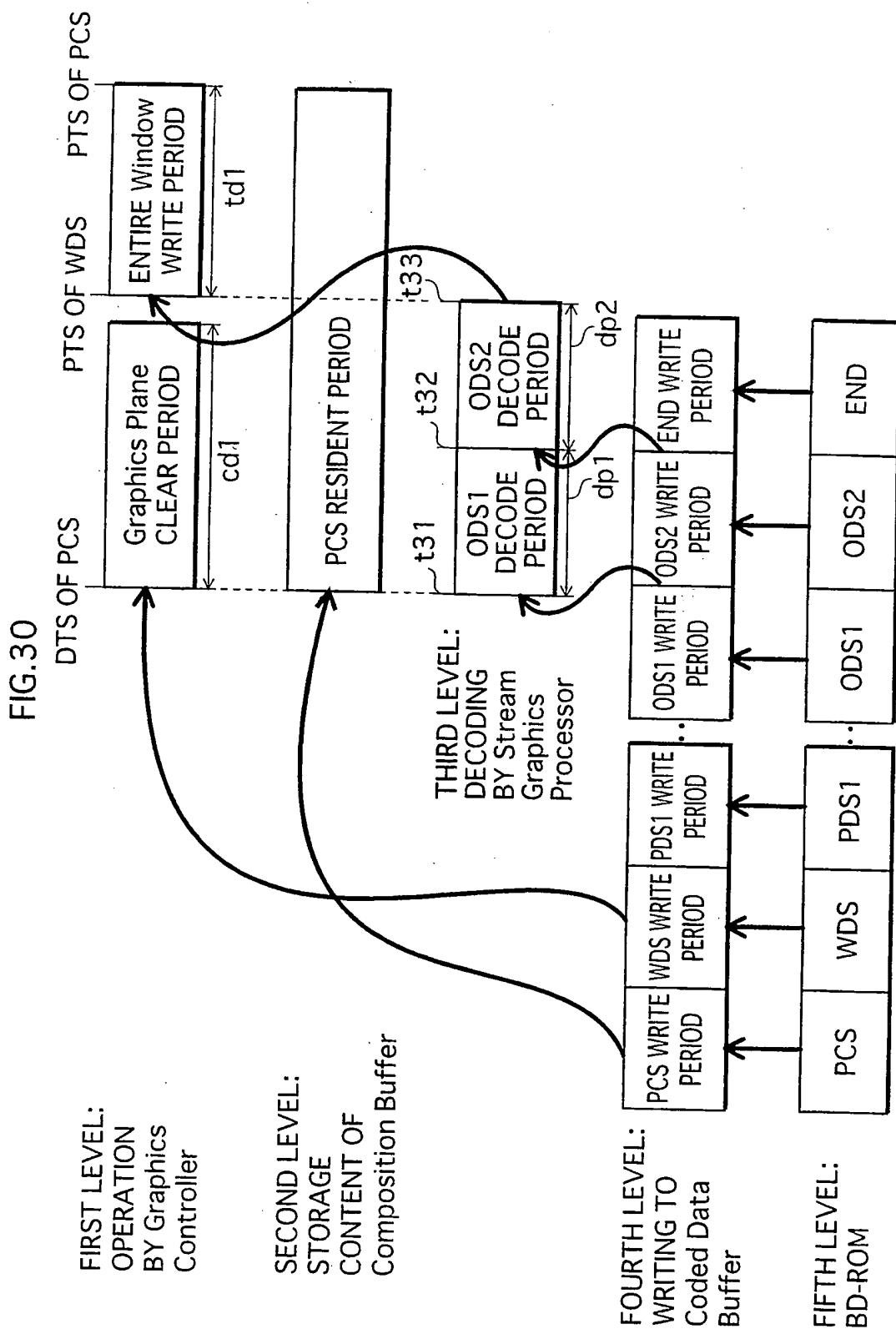
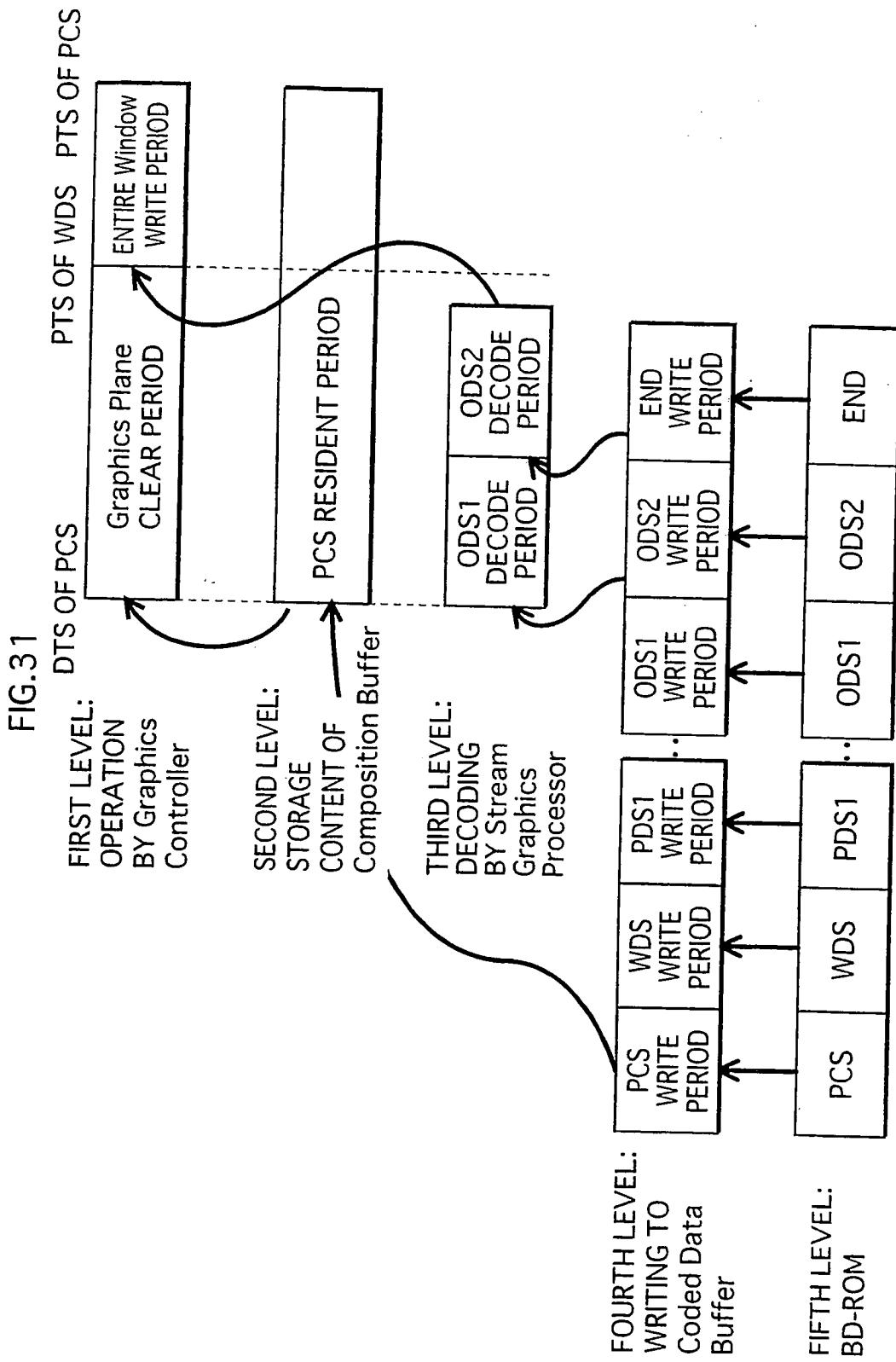
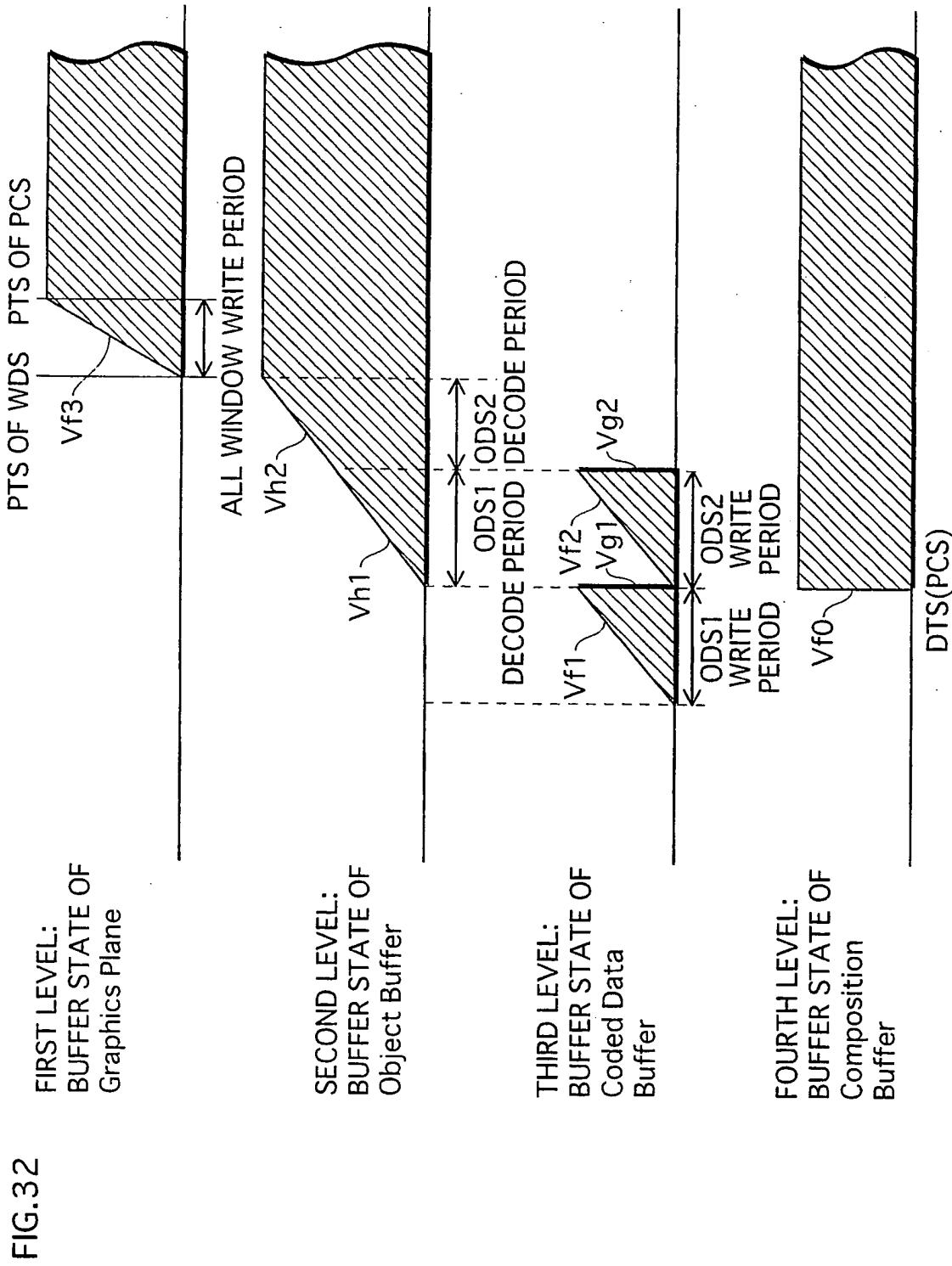


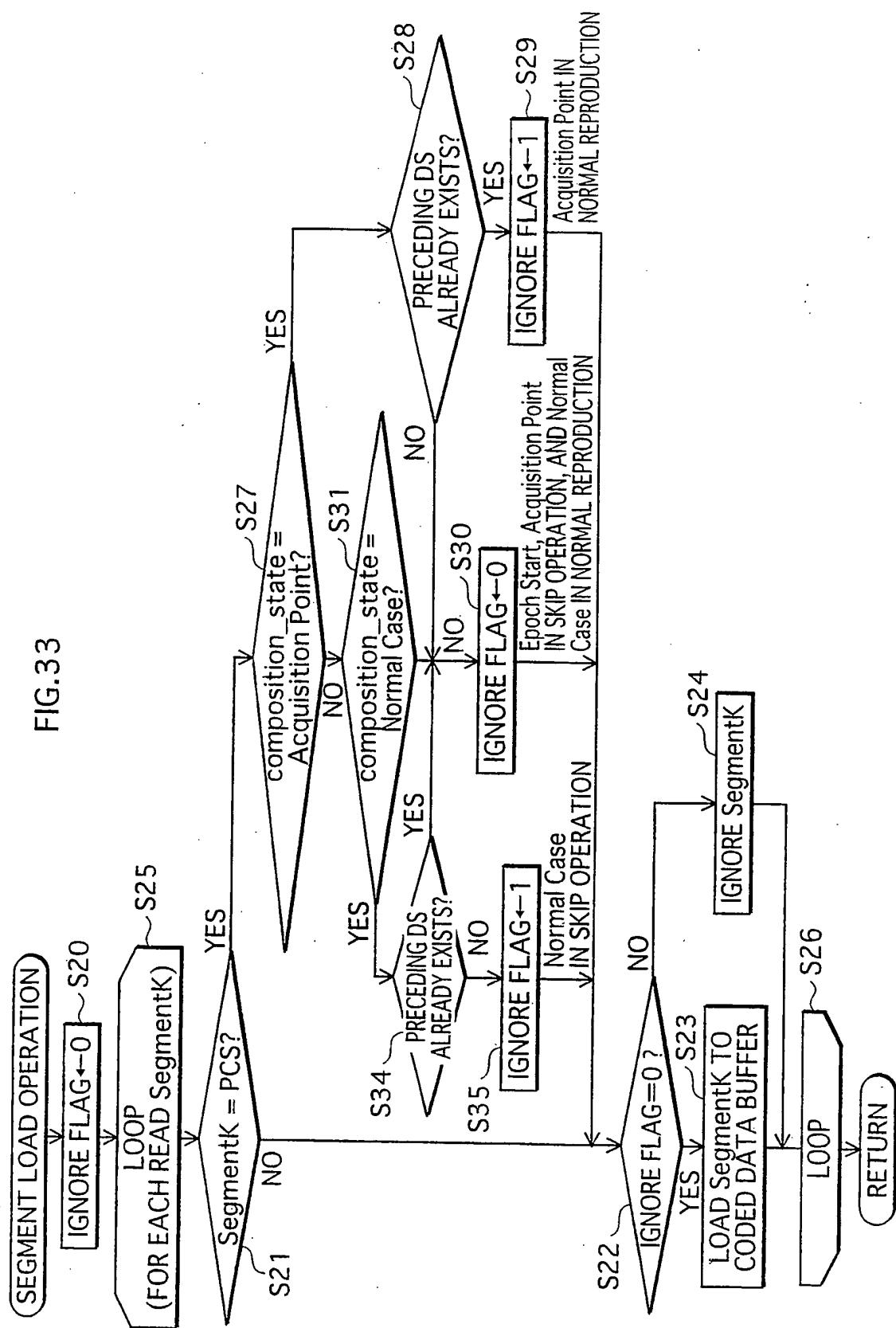
FIG.29











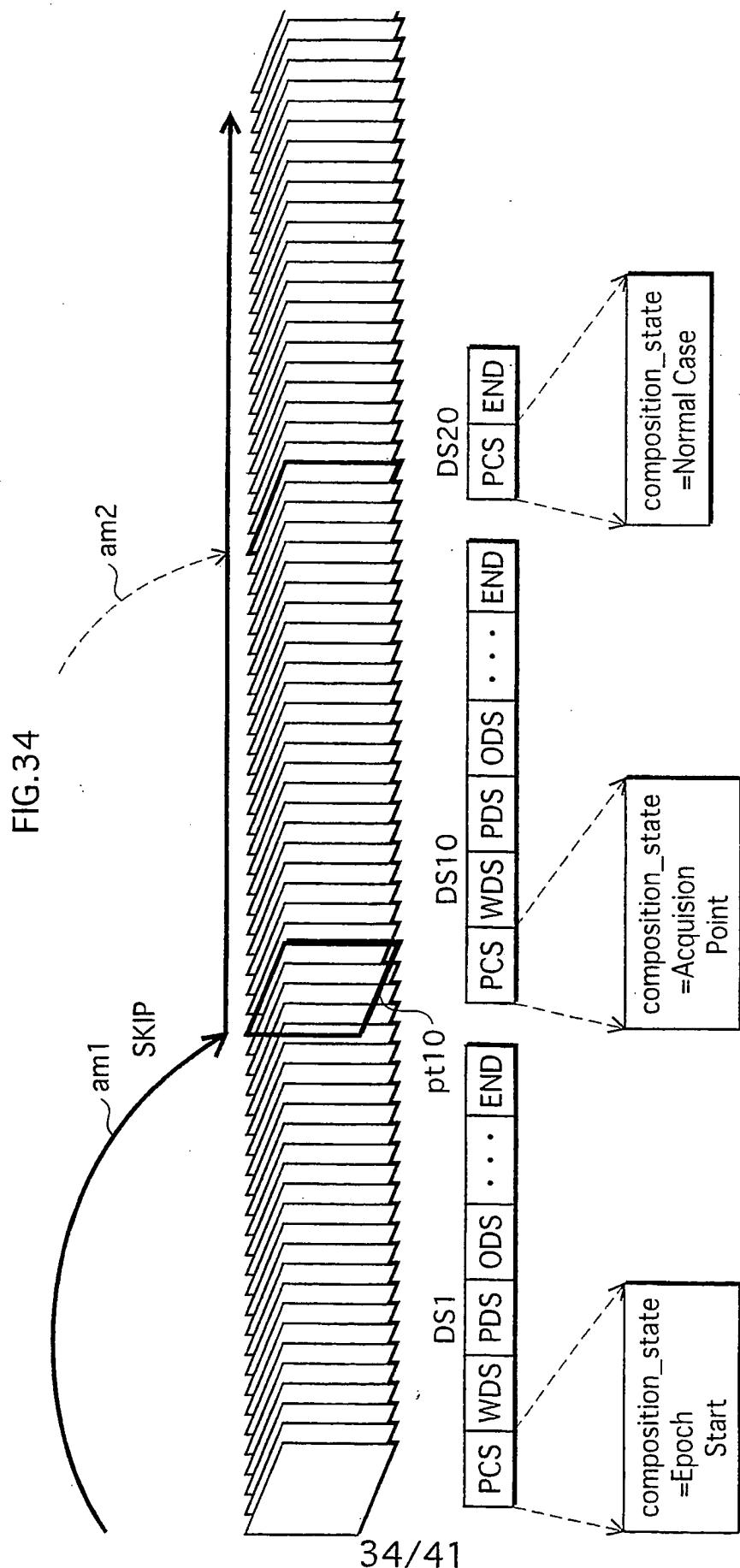


FIG. 35

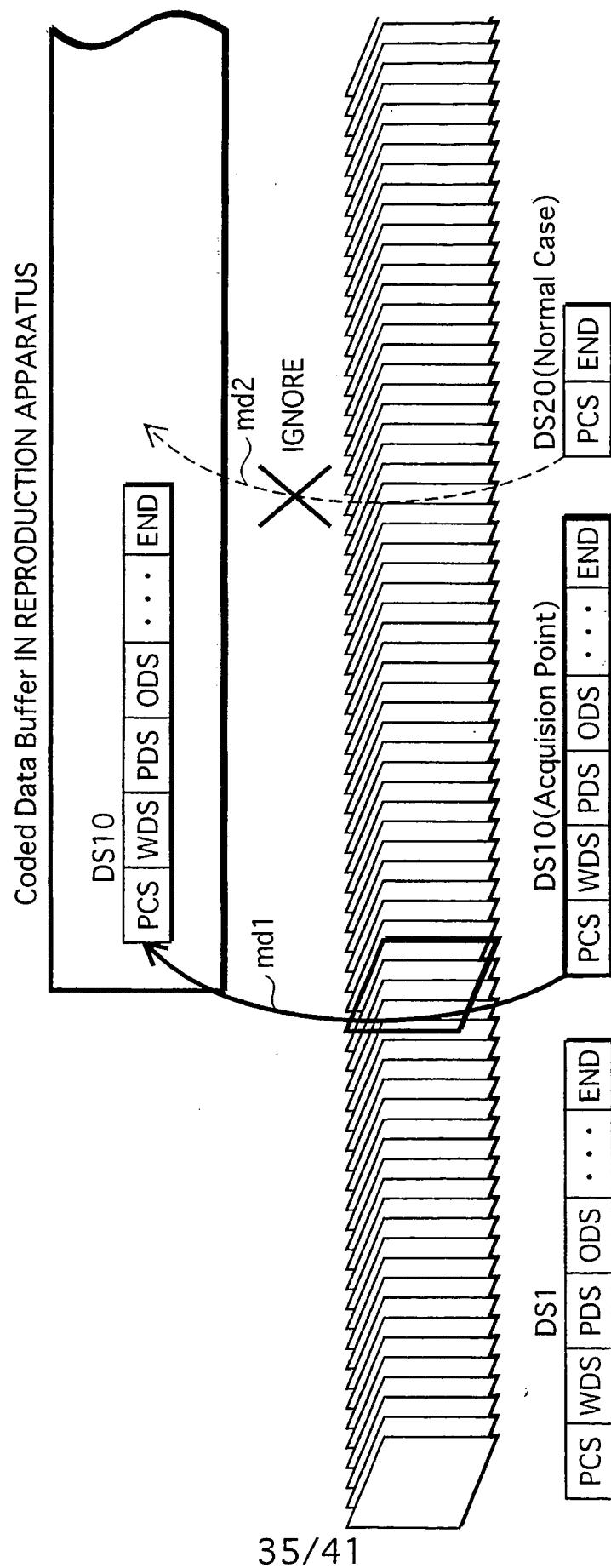


FIG.36

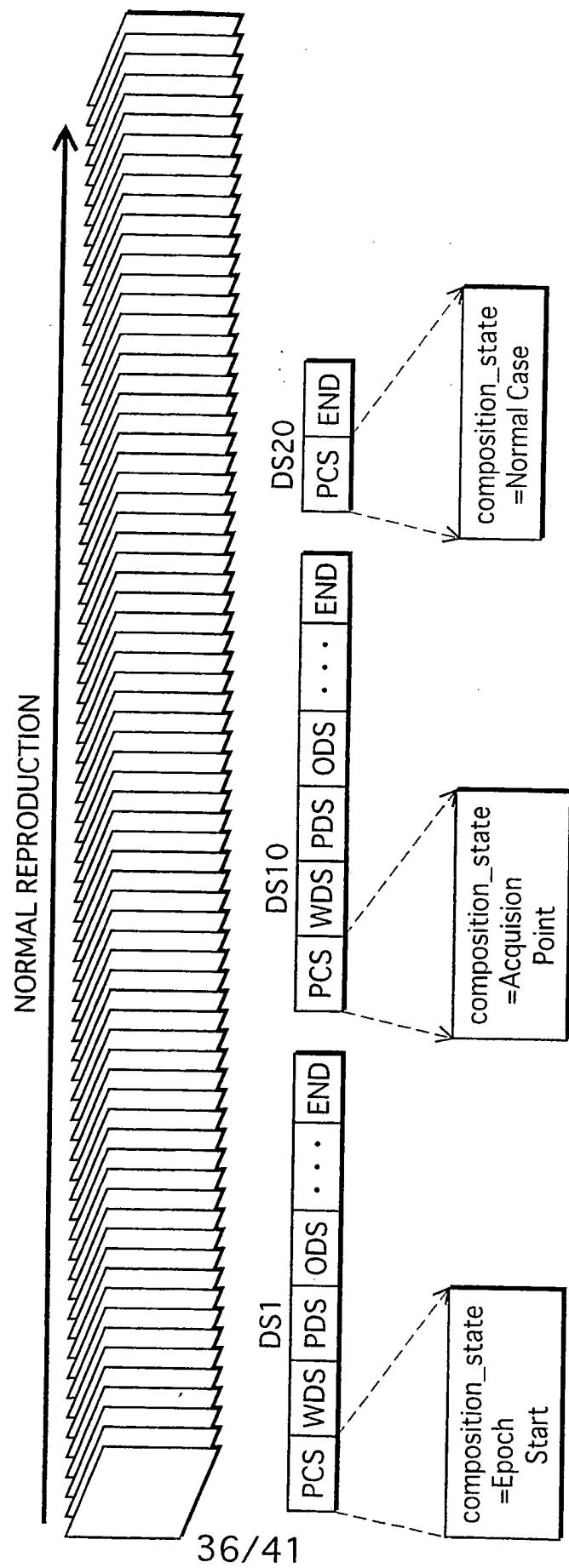
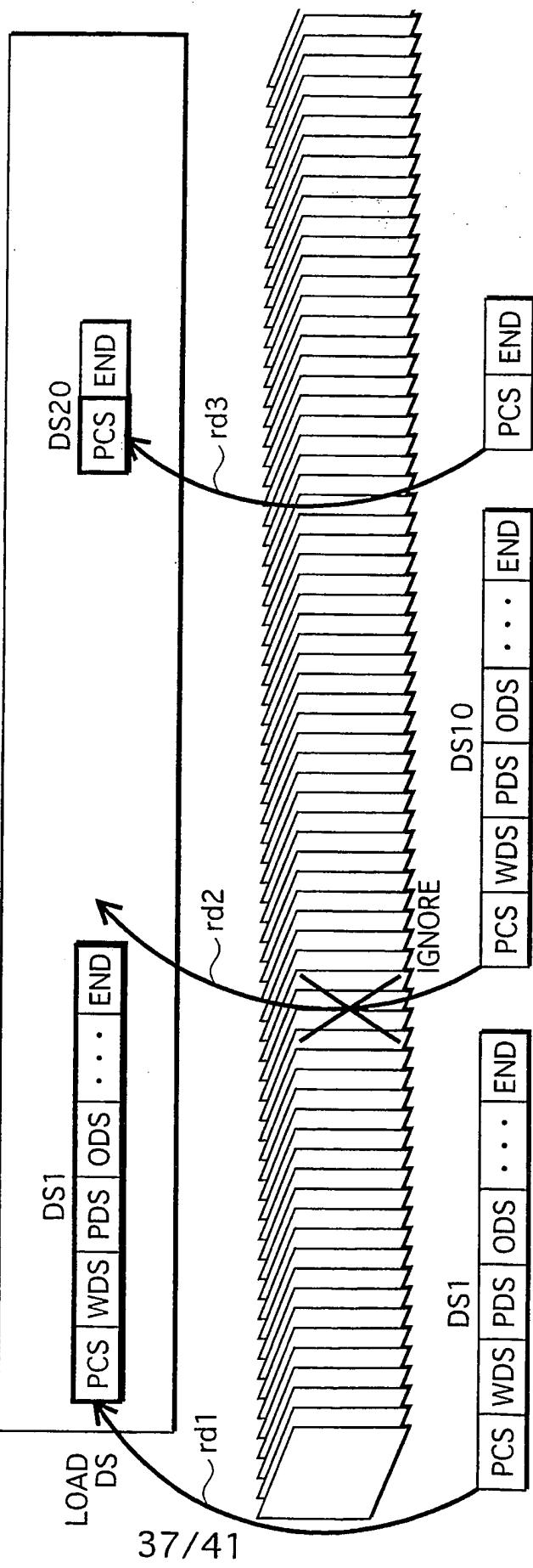


FIG.37
Coded Data Buffer IN REPRODUCTION APPARATUS
MEMORY



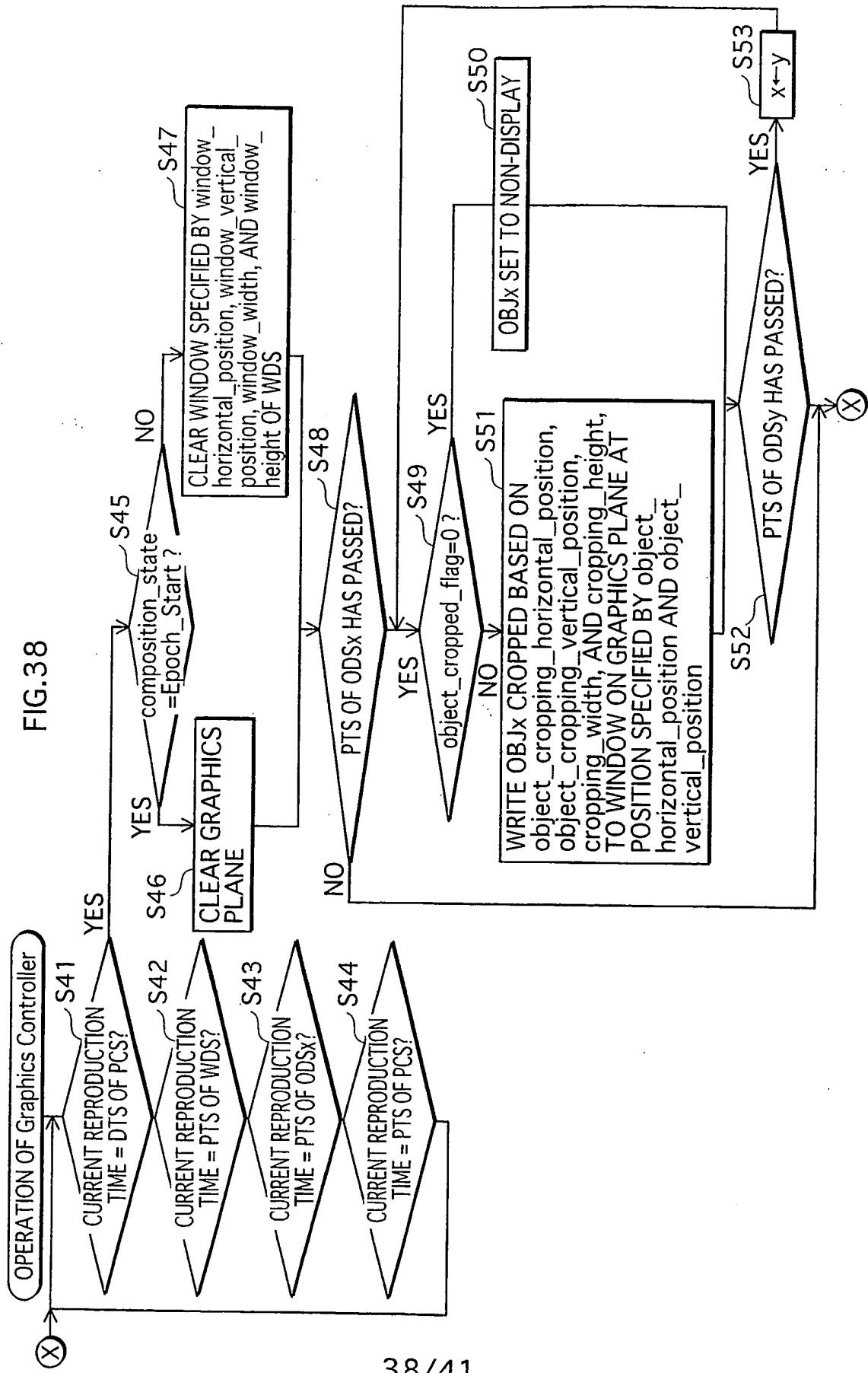


FIG.39

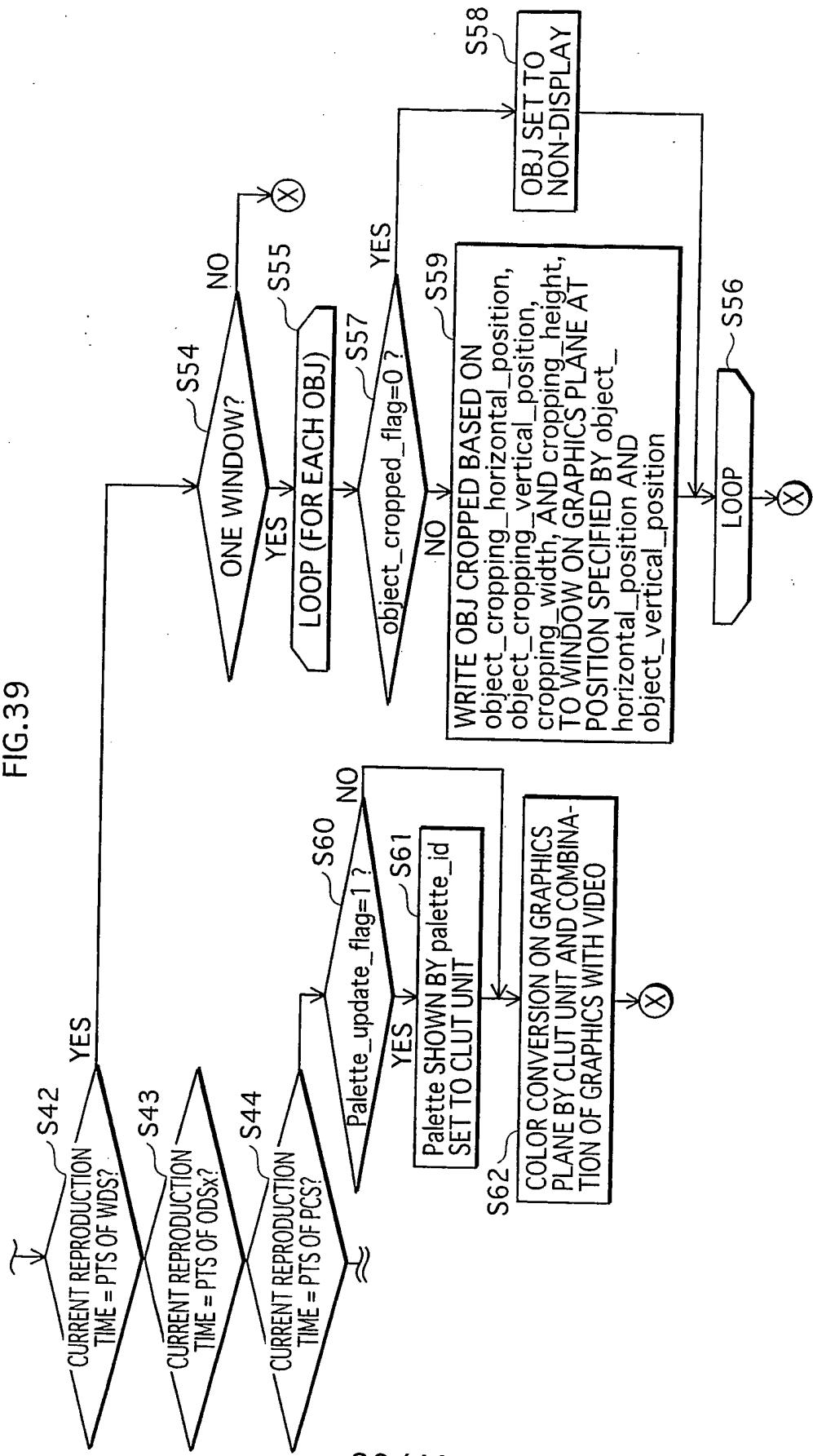


FIG.40

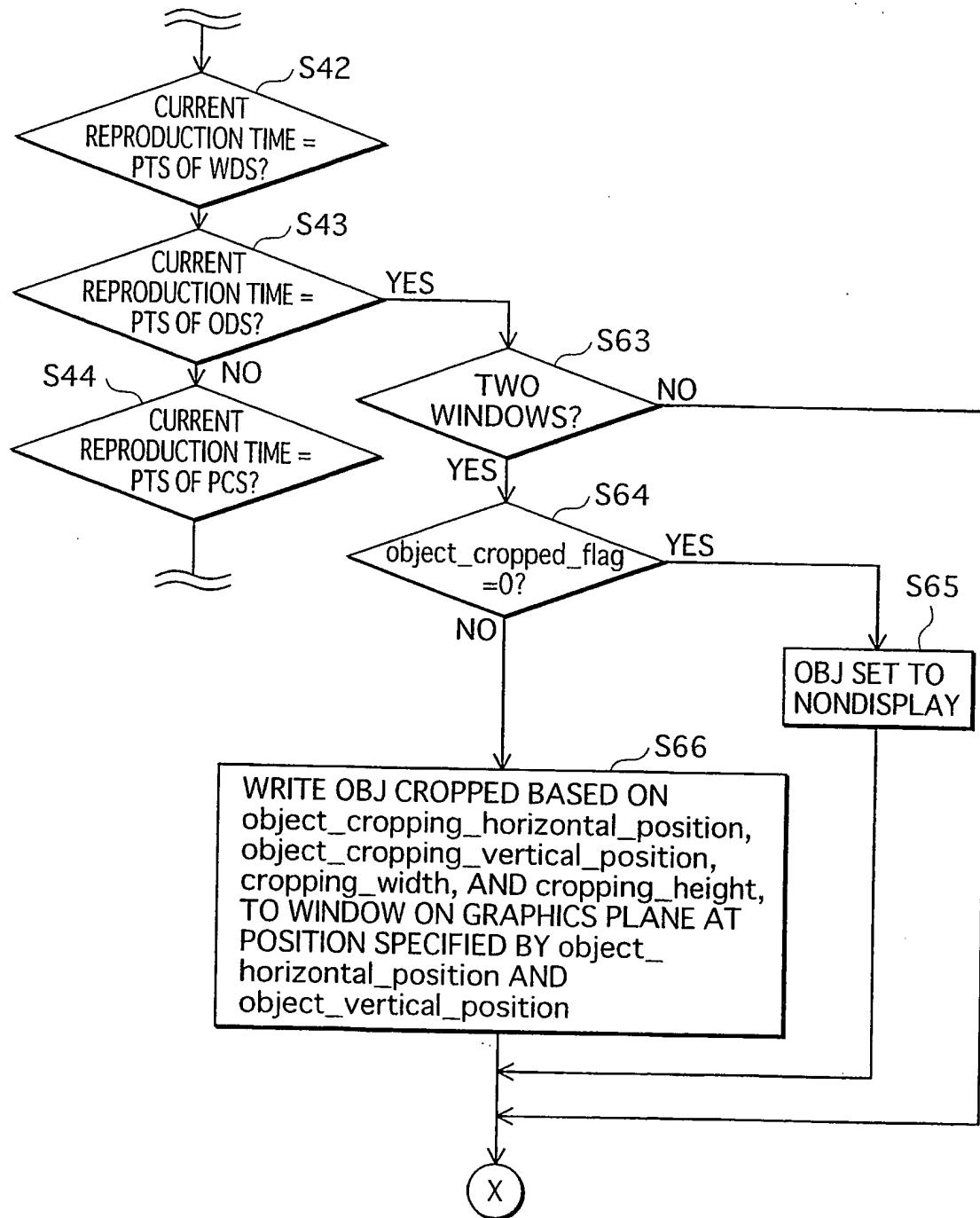
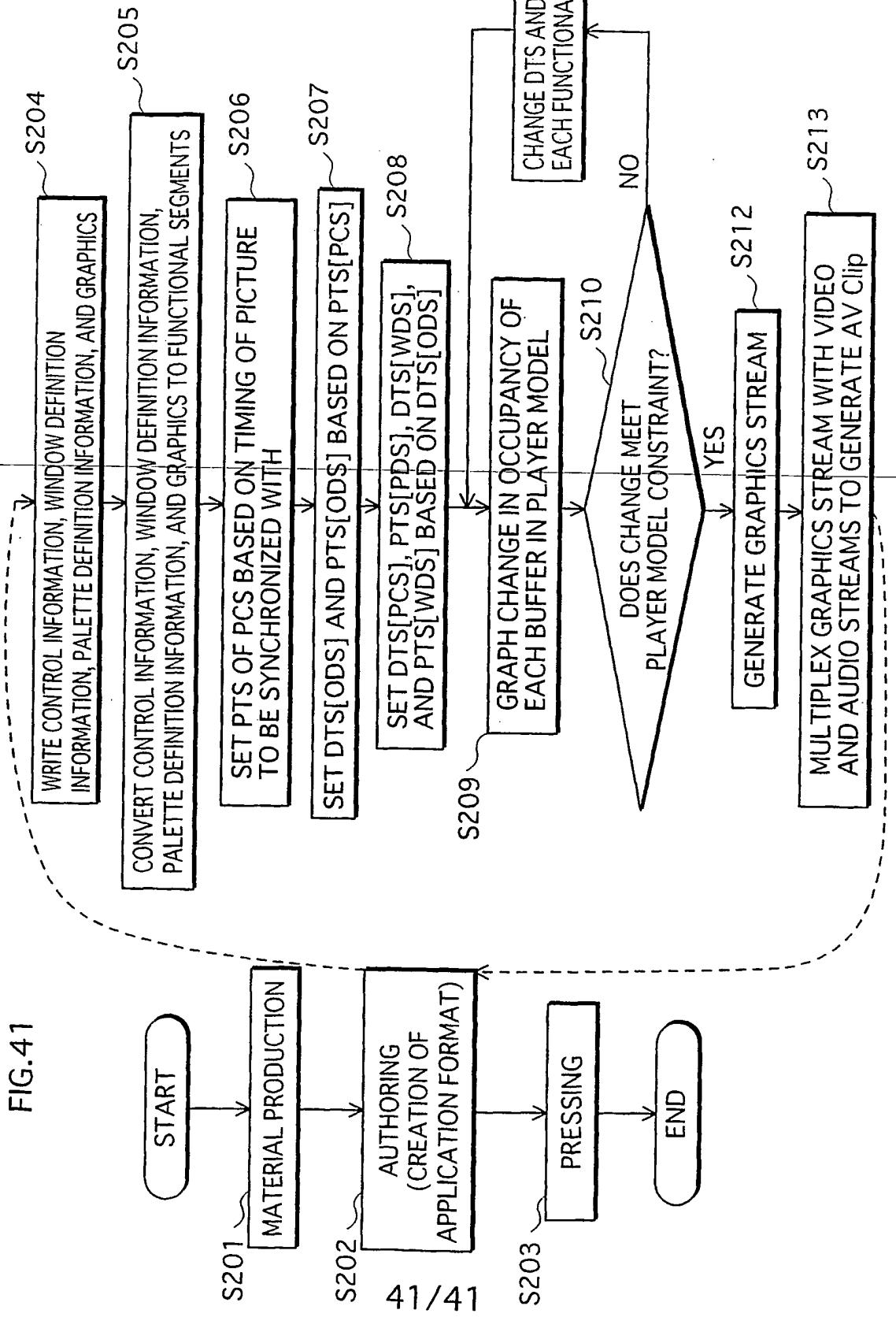


FIG. 41



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